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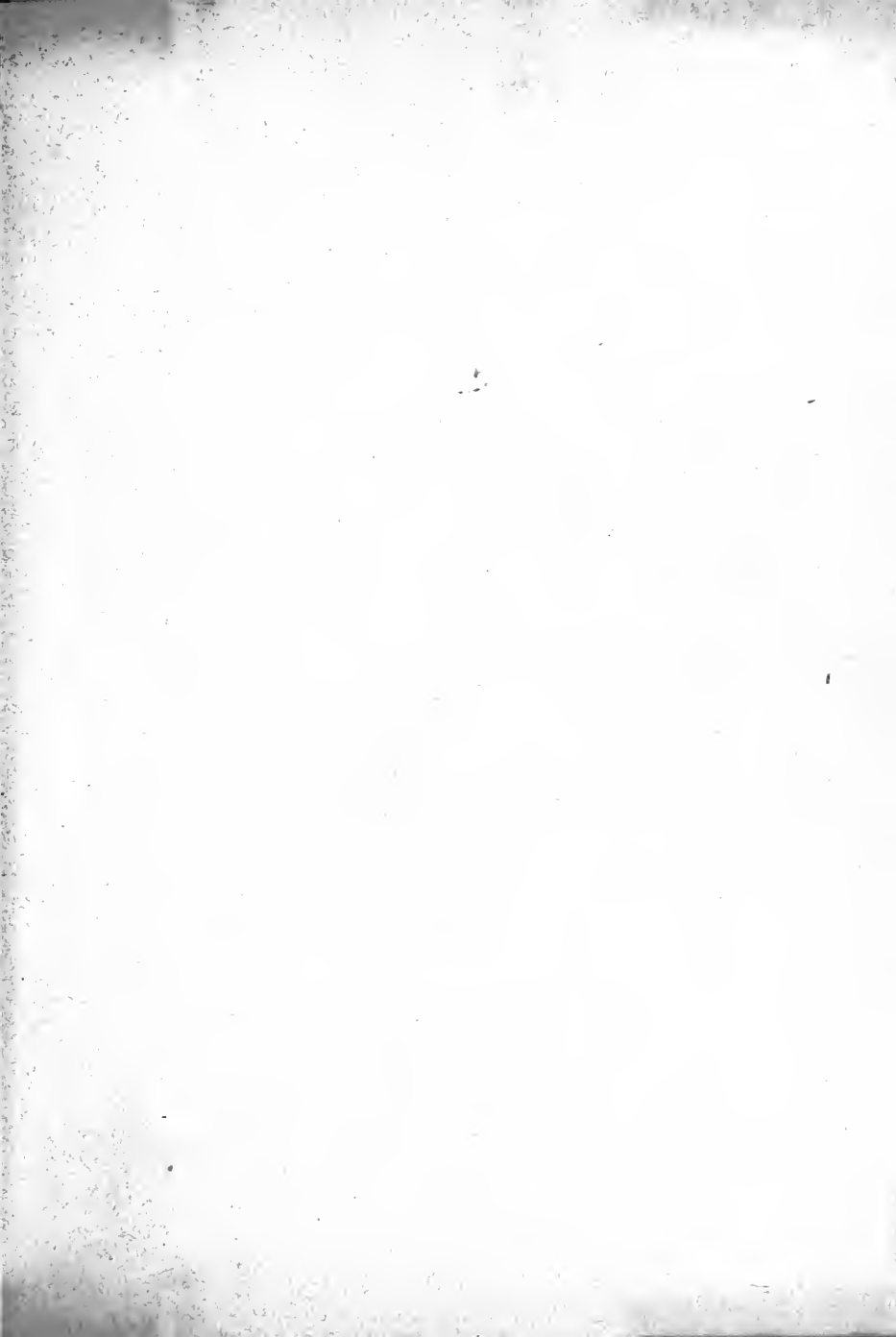
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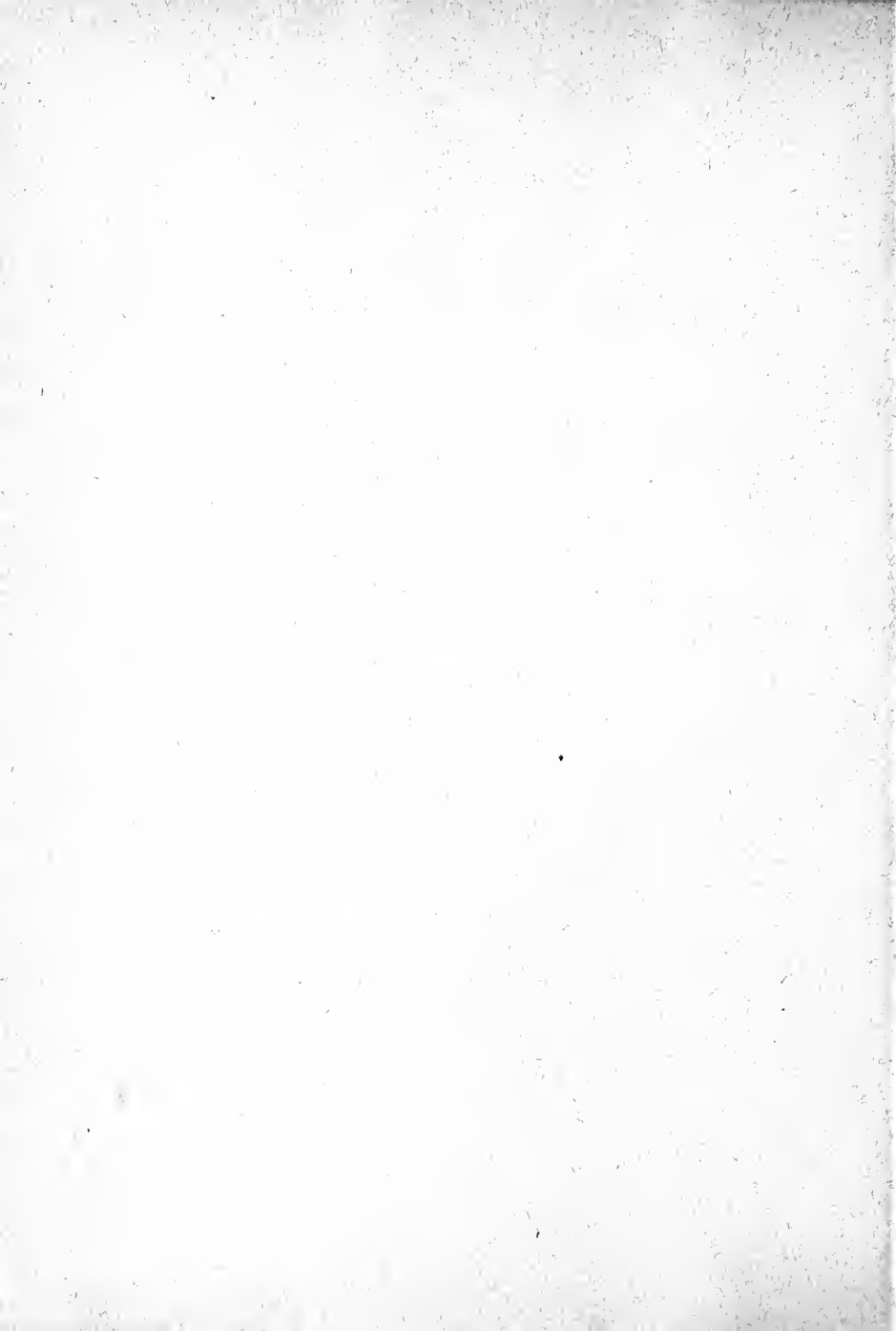
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HAVERFORD COLLEGE BULLETIN

VOL. II.

TENTH MONTH, 1903

No. I.

Reports of the Board of Managers,
President of the College, and
Treasurer of the Corporation
1902-1903



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THE CORPORATION
OF
Haverford College

REPORTS OF
BOARD OF MANAGERS
PRESIDENT OF THE COLLEGE
TREASURER OF THE CORPORATION

PRESENTED AT THE ANNUAL MEETING
TENTH MONTH 13th, 1903.

THE RECORD PRINT
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CORPORATION

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No. 235 Chestnut Street, Philadelphia.

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1011 Diamond Street, Philadelphia.

Treasurer,

ASA S. WING,

409 Chestnut Street, Philadelphia.

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ALLEN CLAPP THOMAS, A. M.,
Librarian and Professor of History.

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John Farnum Professor of Chemistry.

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GEORGE FLOWERS STRADLING, PH. D.
Instructor in Physics.

JAMES WARNER HARRY, PH. D.
Instructor in Political Science.

*Absent 1903-1904.

REPORT OF THE BOARD OF MANAGERS
OF
THE CORPORATION
OF
HAVERFORD COLLEGE
1903

Commencement

The Managers respectfully report that another year of satisfactory results closed on Commencement Day, when sixteen students received the degree of Bachelor of Arts, six the degree of Bachelor of Science, and three former students the degree of Master of Arts. One certificate was given to a student who had pursued a special course of study.

The Commencement exercises were held for the first time in the new Roberts Hall. Parker S. Williams, of the Class of 1894, delivered an acceptable address to the graduates on their attitude towards questions of public interest.

Enrollment

The New Year opened Ninth month 23rd, with an increased enrollment, classified as follows:—three Graduate Students, thirty-one Seniors, twenty-nine Juniors, thirty-three Sophomores, thirty-four Freshmen. Total, 130 students. The changes in our Faculty are noted in the President's report.

The Board has recorded its deep regret at the sudden death last summer of Dr. Edward Rhoads, Instructor in Physics at the College for the past two years. Edward Rhoads was graduated in the Class of 1893, and took his degree of Ph. D. at Johns Hopkins University. After advanced study abroad, he returned to engage in teaching. His scholarly attainments made him a valued member of our teaching staff, while his associates in his special lines of study considered his work marked with the promise of future distinction.

Death of Dr.
Edward Rhoads

The Grammar School, having removed to its new quarters on a near-by property, it was decided to convert the building on our grounds into a dormitory, which has been named "Merion Cottage." The alterations made last summer give comfortable accommodations for eighteen students, with a suite of rooms for the family of the Professor in charge. Although somewhat removed from our other buildings, the rooms have every convenience furnished in our other halls with the advantage of greater quietness and lower charges. That our students appreciate these advantages was shown by the fact that the new rooms were quickly engaged.

Merion Cottage

The new Roberts Hall, presented by Lucy Branson Roberts in memory of her husband, Charles Roberts, has been completed. This hall, described in our last report, is now in use.

Roberts Hall

and will be an appropriate and durable memorial to our late associate, as well as a beautiful and long-needed addition to our group of buildings. The Auditorium was opened for use on Fourth month 30th, and the College Offices were installed in their new quarters during last vacation. The Charles Roberts Autograph Collection is now being arranged by our Librarian, and it is hoped its manuscripts will soon be available for examination.

The Library

During the year ending Ninth month 30th, 1903, there were added to the Library 1628 volumes, of which 735 were bought, 384 were gifts, 7 exchanged for duplicates, 193 came from the Government as a U. S. Depository, and 309 were periodicals, pamphlets and books bound. The total number of books in the Library at the above date was 41,640. During the year 7,373 volumes were withdrawn for use outside the building. Of this number 2704 were withdrawn by students, 2398 by members of the Faculty, and 579 by residents on the College grounds and in the neighborhood. For use "over-night" 1762 volumes were taken from the Library. All these figures show a gratifying increase over last year.

Enlargement of Library

The addition of Alumni Hall to the Library room has increased greatly the capacity and usefulness of the Library. The well-lighted and quiet reading room, the periodical room, the convenient administration accommodations,

the many nooks and corners for the students and the architectural features, all form a beautiful and attractive interior, and at the same time preserve a genuine Library effect and atmosphere.

To the Class of 1900 the Library is indebted for the generous offer to furnish an alcove with standard English fiction. It is proposed to supply a goodly number of volumes year by year. The first instalment of 177 volumes has been received and catalogued, and a handsome special book plate furnished by the donors has been placed in each volume.

Class of 1900
Alcove

The cost of alterations to Merion Cottage and of the extension of the under-ground conduit system has materially increased the current expense for the year. These special expenses account for the larger part of the net deficit of \$19,130.12 shown by the Treasurer's statement.

Deficit

By the death of Clementine Cope in Second month last, the income from the Clementine Cope Fellowship Fund, established by her in 1899, now becomes available for the purpose of the Trust. By her will \$25,000 additional is given to the College without condition.

Clementine Cope
Fellowship Fund

Donations in cash have been received during the year of \$73,267.29, and the total donations for the five years ending Eighth month 31st, 1903, amounted to \$257,158.43. These figures bear eloquent testimony to the liberality of our

Donations, and
Need of
Endowed
Professorships

Alumni and friends. But it should be remembered that nearly all of these gifts were for specified objects, which in many cases increase the annual running expenses of the College. Therefore, we desire to emphasize the remarks of President Sharpless relative to the value of funds for the endowment of professorships which will relieve the budget of the College and constitute a permanent memorial to the benefactor.

Need of More
Students

Haverford also needs more students. In these days of keen competition every influence counts, and the Managers trust that the quality of our Faculty, the excellence of our equipment, the attractiveness of our situation and the reputation we enjoy for doing good work under wholesome conditions, will lead all those who believe in the value of these advantages to encourage and assist young men to seek their advanced education at Haverford.

On behalf of the Board,

T. WISTAR BROWN, *President*.

HOWARD COMFORT, *Secretary*.

Philadelphia,
Tenth Mo. 12th, 1903.

PRESIDENT'S REPORT

To the Board of Managers:

The President reports the register of attendance during the last and present years as follows:

1902-3						
20	0	24	26	29	38	137
Faculty	Graduates	Seniors	Juniors	Sophom.	Freshman	Tot.

1903-4						
20	3	31	29	33	34	150
Faculty	Graduates	Seniors	Juniors	Sophom.	Freshman	Tot.

The new students have been six Seniors, one Junior and thirty-four Freshmen. The Seniors entering are graduates of Friends' colleges in the West and South and the Junior is a student of equal standing from Cornell.

Professors Mustard and Pratt have returned from their year's leave of absence, spent in Rome and Innsbruck respectively. Their places were supplied by Doctors Ebeling and Strong, who, after their temporary engagements were ended, found employment, the one with the classical department of Hamilton College, the other in a Carnegie research position in connection with the University of Chicago.

Dr. Barrett has been granted leave of absence for 1903-4 and his place is occupied by James

W. Harry, Ph. D., of Johns Hopkins University.

Death of Dr.
Edward Rhoads

On Seventh month 4th last, Dr. Edward Rhoads, our Instructor in Physics, was drowned in a canoeing trip in the Susquehanna River. He had held the position for two years with steadily growing strength and a steadily growing appreciation of his character and ability on the part of his associates in the Faculty and his students. He combined the cautious habits of the successful investigator, the clear comprehension of the intelligent student, the indefatigable attention to duty of the useful teacher and the modesty and honesty of the gentleman. He was a graduate of Haverford of 1893, a Ph. D. of Johns Hopkins of 1898, for two years assistant to Dr. Mendenhall at the Worcester Polytechnic Institute and for one year a special student in Physics at Cambridge University in England. Thus he brought back to his College an excellent equipment for service which makes his early death a serious loss to us. The Physical Laboratory has received from his mother the donation of his books to constitute the basis of a library for the department.

George F. Stradling, Ph. D., at present teacher of Physics in the North East Manual Training School, of Philadelphia, will perform his duties during the present year.

The lectures and other public affairs for the last collegiate year were as follows: Lectures and
Public Events

Haverford College Library Lectures:

Dr. Francis Greenwood Peabody, Plummer Professor of Christian Morals in Harvard University, three lectures on "The Religion of an Educated Man."

"Religion and Education." Fourth month thirtieth.

"The Message of Christ to the Scholar." Fifth month first.

"Knowledge and Service." Fifth month second.

Other Lectures:

John William Graham, M. A., Principal of Dalton Hall, Manchester, England, "The Failure of Luxury." Ninth month twenty-sixth.

Other Public Events:

Fifth annual debate between the Philomathean Society of the University of Pennsylvania and the Loganian Society of Haverford College. Question for discussion: "Resolved, That the Army Canteen Should be Restored." Third month twenty-seventh.

Annual Contest for the Alumni Prize in Oratory. Fourth month thirteenth.

Dedication of Roberts Hall. Addresses by Howard Comfort, on behalf of the Board of Managers, and by President Isaac Sharpless, on behalf of the Faculty. Fourth month thirtieth.

HAVERFORD COLLEGE

Junior Exercises. Fifth month fifteenth.

Annual Contest in Extemporaneous Speaking for the Everett Society Medal. Fifth month twenty-first.

Annual Meeting of the Phi Beta Kappa Society. Sixth month ninth.

Alumni Day. Address by William Wistar Comfort, Ph. D., '94, "A Book we Think we have Read." Sixth month tenth.

Senior Class Day. Public Meeting of the Campus Club. Sixth month eleventh.

Commencement Day. Addresses to the graduates by Parker Shortridge Williams, '94. Sixth month twelfth.

* * * * *

Extension of
Heating and
Lighting Plant

The material additions to the College during the past year have been more than usually important. A conduit has been built from the Gymnasium to the Library and from the Library to Founders Hall to convey the heating and water pipes and electric wires to the buildings in our main group hitherto unconnected. The boilers and engines are now housed in a temporary frame shed, which should be replaced by a more substantial and sightly structure. With this exception, the movement begun three years ago, to have all our halls heated and lighted from one source external to all of them, has been completed, to the great convenience of the residents and probably some economy to the College. The expenditure of the present summer was about \$4500.

About \$3000 was raised last year to complete the subscriptions to the Gymnasium fund. There yet remains about \$1300 of unpaid subscriptions. When these are handed in, the noble gift of the Alumni to the College will be rounded out, and the fine building, costing over \$50,000, will stand as a permanent memorial to their loyalty.

Gymnasium
Fund

During the year the Beta Rho Sigma Society has equipped the room set apart for the purpose, with an excellent bowling alley, costing about \$800, and the class of 1897 has given a high grade piano for the main room.

Gifts to the
Gymnasium

The beginning of Haverford College Grammar School, in 1884, was in a rented house near the station. A year later a proposition was made by certain influential neighbors to erect a building on the College grounds to house the School, if the College would take the responsibility of administration. Under this arrangement the School has been working till one year ago, performing the useful function of supplying candidates for our Freshman class. Its growth during recent years has demanded new accommodations and by mutual agreement the Headmaster, Charles S. Crossman, who has been connected with the School from the start, purchased grounds in the neighborhood and erected excellent buildings for his purpose. At New Year, 1903, he removed from the old building and since then there

Removal of
Grammar School

have been no organic relations between the College and the School, except those of proximity and good will.

Merion Cottage

The vacating of the building came just when the prospect of housing an increased number of students confronted us. It was concluded to open it as a new dormitory. The eastern end was made into a home for a Professor, who will have general charge, and rooms for eighteen students have been found in the balance of the building. The lower story is still unoccupied and no disposition has been made of the large gymnasium building, unconnected, but in close proximity to Merion Cottage—as it is proposed to name the new dormitory. The cost of the change amounted to nearly \$11,000.

The rooms are not exceeded for comfort by anything on the College grounds, but, in view of their distance from the Dining and Recitation Halls, the price for tuition, board and rooms there has been fixed at \$350.

Roberts Hall

Roberts Hall, whose inception was mentioned a year ago, has been finished during the year. The first public exercises in the large hall were on Fourth month thirtieth, when Howard Comfort, on behalf of the Board of Managers, accepted the beautiful structure as a memorial to Charles Roberts. The exercises of Commencement week were held in the hall, and at the opening of the present year the offices of the President and Secretary were re-

moved to the front rooms. The autograph collection of Charles Roberts has been placed in the fire-proof room, but the opportunity has not been afforded to catalogue it or store it in permanent cases. The whole cost of building and furnishing the Hall, amounting to about \$53,000, has been cheerfully borne by Lucy B. Roberts.

The wooden footbridge over the old railroad way, having become decayed by time, has been replaced by an iron structure. For this we are indebted to the kindness of Abram F. Huston.

New Bridge

A number of friends have subscribed to a fund to add to the equipment of our electrical laboratory. This fund needs still further increase.

Electrical
Equipment
Fund

For three years an expenditure of about \$1,000 a year has been made on the drives through the College grounds. Much is yet needed in this direction. The alternate trees of Maple Avenue, dead or dying, have been removed and burr oaks placed in their stead. These, and other oaks planted this spring, were the gift of Stuart Wood. A number of other trees were set out through the agency of the Campus Club. This club has under its care a plan for beautifying the lawn and has received a donation of \$500 conditioned upon other subscriptions for the purpose. The plan includes a garden to be a memorial to our late beloved Matron, Mary Newlin Smith.

The Lawn

A First Class College Defined

A first class college has been defined as one where students can receive at least three years of progressive teaching in all the important subjects, ending with a year of really advanced work. Haverford can satisfy this definition in Latin, Greek, German, French, English, Mathematics, Chemistry and Biology. In Philosophy and Economics she cannot satisfy it because these studies do not begin till the Junior year. She cannot in History because the courses are disconnected and not progressive, nor in Physics because present conditions do not make provision for advanced work. This classification shows the weaker places in our arrangements. Our Faculty is unusually strong and expensive for a small college but to make it equally effective in all parts, certain additions and substitutions would have to be made. In the present state of our finances this is impossible. The amount now paid for salaries, about \$41,000, cannot be increased, and we shall be compelled to be satisfied with holding our own.

Need of Endowed Professorships

This brings us to the great present need of the College. A good science hall would comfortably complete our list of necessary buildings; but buildings, while essential, are costly to maintain and make all the more important the increase of the funds which can be utilized for the general support of the College. Such general funds could, with perhaps the greatest

satisfaction, take the form of endowments to establish professorships or maintain departments. The Professorships of Chemistry and Biology and the Department of Biblical Study are thus endowed, but the long list of other officers is paid from the general income of the College. The salaries of the best men in the best institutions are increasing and the rate of interest on money invested is decreasing. Hence larger endowments than of old are necessary. The income of one hundred thousand dollars is none too much to pay a professor and supply him with books. A few professorships on this basis would not only furnish the best possible instruction but would favorably affect the College in the eyes of the discriminating public as nothing else would, for they would show that we propose to keep the important matter of instruction on a high plane.

The Clementine Cope Fellowships, tenable "at Haverford or elsewhere," to be held by Haverford graduates, will now be available. We have not in recent years encouraged graduate students to come to Haverford. The few who have come have been those whose specialties we were able conveniently to supply at the time. With our instructors busy with undergraduate work, it has seemed hardly fair to them or the students to add to their duties advanced teaching of an individual character. With increased resources we

Graduate Work

could readily face the question of the addition to our four years course of one year of study in certain departments leading up to the Master's degree. When this time comes, these new fellowships may be properly employed in forming the nucleus of such a graduate body, and the wisdom of supplying them will be very evident.

Student
Activities

There are student activities, not purely intellectual, which in old days were chiefly ignored, but which now have a large place in collegiate life. Some of these are athletic, some religious.

Pure Athletics

The athletic activities are taking a very strenuous form. To win victories is the motive power. To gain health, recreation or physical development has become subsidiary. The testimony seems to be abundant that the teams of some of our educational institutions contain hired players, who may also be, incidentally, good students and estimable men; that the instruction of the coaches is often devoted to the means of outwitting an official or disabling an opponent, and that spectators are educated in applauding and justifying an indefensible play which wins points for their side.

It is the duty of all lovers of good play to make their influence felt against these tendencies. If college authorities are in close touch with the students and understand the situation, their voices will be heeded when they preach

righteousness and the true spirit of sport. The fatal error is to withdraw from participation in such things on the ground that the problem is hopeless. It is not hopeless as our experience and our practice show. "He is a rash President," said one of our large university presidents to another, "who speaks confidently of the purity of his foot ball team." With this caution in mind, I venture to assure our Board and patrons that, at the present time, no student at Haverford is receiving one dollar of aid because he is a player; that no hired coach gives instruction on the foot ball field, and that fair play and generous treatment of opponents are the prevailing sentiments of the College.

Still more important is our attitude to the religious problems which baffle the intellects and modify the lives of so many college students. There is the old struggle against vice which every one has to go through with and which, in the case of many young men, demands our strongest sympathy. But there is also the new struggle against perverting intellectual tendencies which come crowding in upon them from every side. Here again there is no safety in withdrawal. There is much of inestimable value in the modern trend of thought. There is also something of danger. The young mind is properly inquiring and should know the meaning of present day preaching and teaching. But he should know

Religious
Problems

also that the best thinkers and teachers of the age find in them a welcome confirmation of the religion of Christ in its simplicity and purity. He should be taught to steady himself, therefore, in the midst of the storm, to face fairly the issues of life and religion, and, with open mind, to wait till a new revelation clears away doubts and gives him a firm standing ground. The duty of the College to such students is not open to question. To do something in this matter of supreme importance is made possible to us by the liberal endowment of our fund for Bible Study and our fund for the Library Lectures on the same basis. It is the intention to have these lectures published in a series. The first number, "The Religion of an Educated Man," by Dr. Francis Greenwood Peabody, will shortly be issued from the press of The Macmillan Company. Such lectures, while often greatly effective, are secondary to the steady, every day influence of a Faculty alive to its duty, and to the power for good exerted by the students themselves, largely through the organization of the Young Men's Christian Association.

Respectfully,

ISAAC SHARPLESS, *President.*

Haverford,

Tenth month 1st, 1903.

PUBLICATIONS OF THE FACULTY,
1902-1903.

BABBITT, JAMES A.—*Athletic Number*, Haverford College Bulletin No. 4, Sixth month, 1903. *Chautauqua Nature Study*. Article in Magazine for Chautauqua Junior Naturalists. *New series in Fancy Club Swinging*. Printed for the Gymnasium.

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EBELING, HERMAN L.—*Report of Hermes, Vol. XXXVI. American Journal of Philology Vol XXIII, pp. 332-339.*

GUMMERE, FRANCIS B.—*The Old Wives' Tale, by George Peele.* Edited, with introduction and notes, for Macmillan's Series of English Comedies. The Macmillan Co., 1903. *Primitive Poetry and the Ballad, Parts I and II.* Modern Philology, University of Chicago Press, 1903.

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HANCOCK, ALBERT E.—The Booklover's Magazine: five illustrated articles on *The Human Comedy of Balzac*; *The Dual Personality in Literature and Life*; *Hermann Sudermann: Novelist and Dramatist*; *Bill Nye and His Work*; *Bret Harte: Romancer, Poet, Parodist*. The Literary Era: an article on *The Style of Maurice Hewlitt*; a short story entitled *In the Heart of Nature*. The Outlook: an article on *The Art of James Lane Allen*, and reviews of the following books: Perry's *Study of Prose Fiction*, Stopford Brooke's *Poetry of Browning*, Chubb's *Teaching of English*, Lanier's *Shakspeare and his Forerunners*, Lee's *Lost Art of Reading*, Garnet and Gosse's *Illustrated History of English Literature*, Sears' *American Literature in its Colonial and National Periods*, Trent's *American Literature*, Lawton's *Introduction to American Literature*.

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MUSTARD, WILFRED P.—*Tennysonianana*. Notes in the American Journal of Philology, Vols. XXIII-XXIV.

PRATT, HENRY S.—*Synopsis of North American Invertebrates. XII. The Trematodes. Part II. The Aspidocotylea and the Malacocotylea, or Digenetic Forms*. The American Naturalist, Vol. XXXVI, Nov. 1902, pp. 887-910, and Dec. 1902, pp. 953-979, with 130 figures. *Descriptions of Four Distomes*. Mark Anniversary Volume, with 10 figures, 1902.

STRONG, R. MYRON.—*The Development of Color in the Definitive Feather*. Bulletin of the Museum of Comparative Zoology, Harvard, Vol. XL, No. 3, October, 1902. *A Case of Abnormal Plumage*. Biological Bulletin, Vol. III, No. 6, November, 1902. *White Feathers*. Abstract of a paper given before the Zoological Section of the American Association for the Advancement of Science, January, 1903. *Science*, Vol. XVII, No. 424, February, 1903. *Iridescent Feathers*. Abstract of a paper given before the American Morphological Society, January, 1903. *Science*, Vol. XVII, No. 430, March, 1903.

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SUMMARY OF THE ACCOUNT OF THE TREASURER OF THE CORPORATION OF HAVERFORD COLLEGE

From Eighth mo. 31, 1902, to Eighth mo. 31st, 1903

RECEIPTS.

Income from investments—

General Endowment Fund,	\$5,239 50
Thomas P. Cope Fund,	362 70
Edward Yarnall Fund,	233 35
Alumni Library Fund,	655 54
Isaiah V. Williamson Fund,	982 46
John Farnum Memorial Fund,	1,463 54
John M. Whitall Fund	562 03
Richard T. Jones Scholarship Fund, ...	225 00
David Scull Fund,	2,098 41
Edward L. Scull Fund,	462 62
New Library Fund,	265 46
Wistar Morris Memorial Fund,	245 00
Mary Farnum Brown Library Fund, ..	1,379 97
Mary M. Johnson Scholarship Fund, ..	164 95
Sarah Marshall Scholarship Fund,	225 40
Israel Franklin Whitall Fund,	553 51
Jacob P. Jones Endowment Fund,	24,341 01
Clementine Cope Fellowship Fund,	1,133 81
John Farnum Brown Fund for Bible Study, &c.,	3,594 93
Ellen Wain Fund,	478 60
	<hr/> \$44,367 79
Board and Tuition, cash,	\$36,756 50
“ “ scholarships,	13,175 00
	<hr/> \$49,931 50
Carried forward,	\$94,299 29

HAVERFORD COLLEGE

27

Amount brought forward,	\$94,299	29
Board of Professors, .. .	1,133	40
Rents,	2,926	00
Farm,	1,452	62
Stationery,	408	18
Income credited to Contingent Account,	330	47
Receipts for Account of Previous Years,	1,063	30
Donations—For Addition to John Farnum		
Brown Memorial Fund for		
Bible Study and Religious		
Teaching,	\$30,000	00
“ —For Roberts Hall,	34,500	00
“ —For New Gymnasium,	3,887	33
“ —For Salaries,	1,350	00
“ —For Library Improvements,	1,600	00
“ —For Electrical Equipment, ..	365	00
“ —For Physical Laboratory, ..	500	00
“ —For Fellowships,	520	00
“ —For Prizes, Etc.,	544	96
	73,267	29
Money borrowed temporarily	101,100	00
Investments—General Endowment Fund,	\$31,105	14
“ —Alumni Library Fund.....	2,500	00
“ —John Farnum Memorial Fund,	250	00
“ —John M. Whitall Fund,	2,000	00
“ —David Scull Fund,.....	6,000	00
“ —Edward L. Scull Fund,.....	1,000	00
“ —Mary Farnum Brown Library		
Fund,	3,312	82
“ —Jacob P. Jones Endowment		
Fund,	51,919	45
“ —Clementine Cope Fellowship		
Fund,	400	00
“ —John Farnum Brown Fund for		
Bible Study, Etc.,	5,531	25
	104,018	66
Amount carried forward,	379,999	21

HAVERFORD COLLEGE

Amount brought forward,	\$379,999	21
Balance on hand Eighth Month 31st, 1902:		
In the hands of the President,	1,205	18
In the hands of the Treasurer,	45	25
	<hr/>	\$1,250 43
		<hr/>
		\$381,249 64

PAYMENTS.

Salaries,	\$41,150	00
Provisions,	14,871	02
Wages	7,375	85
Repairs and improvements,	5,416	52
Fuel and lights, ..	5,905	53
Interest,	3,294	53
Family expenses and furniture,	1,402	64
Lawn and garden,	2,032	25
Taxes,	973	26
Incidentals,	1,023	27
Scientific equipment,	707	80
Gymnasium and athletics,	542	80
Printing and advertising,	880	12
Insurance,	434	96
Books, etc., from income Alumni Library Fund, ...	752	15
Books, etc., from income David Scull Fund,	3	00
Books, etc., from income New Library Fund,	251	98
Books, etc., from income Mary Farnum Brown Library Fund,	1,031	68
Lectures from income Mary Farnum Brown Lib. Fund,	450	00
Clementine Cope Fellowship Fund Annuity,	500	00
On account of Alterations, etc., Merion Cottage, ..	11,526	49
On account of Underground Conduit,	4,536	00
Scholarships—Income General Endowment Fund,	\$1,600	00
“ —Income Thomas P. Cope Fund,	400	00
“ —Income Edward Yarnall Fund,	200	00
“ —Income Isaiah V. Williamson Fund,	900	00
“ —Income Richard T. Jones Scholarship Fund,	225	00
Amount carried forward,	\$3,325 00	105,061 85

HAVERFORD COLLEGE

29

Amount brought forward,	\$3,325 00	105,061 85
Scholarships—Income Jacob P. Jones		
Endowment Fund,	9,250 00	
“ —Income Mary M. Johnson		
Scholarship Fund,	200 00	
“ —Income Sarah Marshall		
Scholarship Fund,	200 00	
“ —John H. Converse Donation, ..	200 00	
	<hr/>	\$13,175 00

Paid out of special donations:

From William P. Henszey Donation, ..	\$ 6,500 00	
For Roberts Hall,	40,774 87	
For Library Improvements,	2,350 00	
For salaries,	1,000 00	
For Fellowships,	520 00	
For Physical Laboratory,	498 33	
For Prizes, &c.,	410 19	
	<hr/>	\$52,053 39

Paid temporarily on account of Loans out of Funds
awaiting reinvestment, 96,600 00

Paid for Municipal Improvements on account of
Jacob P. Jones Endowment Fund, 2,453 77

Investments:

General Endowment Fund,	\$26,000 00
Thomas P. Cope Fund, ..	1,000 00
Alumni Library Fund,	3,000 00
John Farnum Memorial Fund,	5,946 25
John M. Whitall Fund,	2,000 00
Edward L. Scull Fund,	3,000 00
Mary Farnum Brown Library Fund, ..	4,000 00
Mary M. Johnson Scholarship Fund, ..	2,000 00
Jacob P. Jones Endowment Fund,	27,600 00
John Farnum Brown Fund for Bible Study, &c.,	35,607 50

\$110,153 75

Balance on hand Eighth month 31st, 1903:

In the hands of the President,	985 62
In the hands of the Treasurer,	766 26
	<hr/>
	1,751 88

\$381,249 64

FINANCIAL STATEMENT

FOR THE YEAR ENDING 8TH MO. 31ST, 1903

Expenses of running the College, as per Treasurer's Statement,	\$105,061 85
Receipts for Board and Tuition, Rents, Farm and from all other sources connected with the business of the College,	42,876 70
	<hr/>
Leaving a deficiency of	\$62,185 15
Income from Investment Funds applicable to Scholarships and running expenses,	43,055 03
	<hr/>
Leaving net deficiency for the year	\$19,130 12

THOMAS P. COPE FUND.

FOUNDED 1842

Par value of Invested Funds,	\$4,900 00
Principal uninvested,	410 04
	<hr/>
Total Fund,	\$5,310 04
Income on hand at beginning of year,	\$287 70
Income received during the year,	362 70
	<hr/>
	650 40
Paid for the Thomas P. Cope Scholarship,	400 00
	<hr/>
Balance on hand at end of the year,	\$250 40

GENERAL ENDOWMENT FUND.

ESTABLISHED 1847 AND INCREASED FROM TIME TO TIME SINCE

Par value of Invested Funds,	\$74,755 00
Principal Uninvested,	23,018 60
	<hr/>
Total Fund,	\$97,773 60
Income received during the year,	5,239 50
Paid for Scholarships,	\$1,600 00
Paid for General College Expenses,	3,639 50
	<hr/>
	5,239 50

HAVERFORD COLLEGE

31

EDWARD YARNALL FUND.

FOUNDED 1860

Par value of Invested Funds,	\$6,000 00
Principal uninvested,	51 24

Total Fund,	\$6,051 24
Income on hand at beginning of year,	\$ 70 83
Income received during year,	233 35
	<hr/>
	304 18
Paid for the Edward Yarnall Scholarships,	200 00

Income on hand at end of year,	\$104 18
--------------------------------------	----------

ALUMNI LIBRARY FUND.

ESTABLISHED BY THE ALUMNI ASSOCIATION, 1863

Par valued of Invested Funds,	\$10,700 00
Principal uninvested,	567 09

Total fund,	11,267 09
Income on hand at beginning of year,	\$179 44
Income received during the year,	655 54

	<hr/>
	834 98
Paid for Books, &c.,	752 15

Income on hand at end of year,	82 83
--------------------------------------	-------

ISAIAH V. WILLIAMSON FUND.

FOUNDED 1876 AND INCREASED 1883

Par valued of Invested Funds,	\$20,866 66
Principal over invested,	197 63

Total fund,	\$20,669 03
Income on hand at beginning of year,	\$198 52
Income received during the year,	982 46

	<hr/>
	1,180 98
Paid for I. V. Williamson Scholarships,	900 00

Income on hand at end of year,	\$280 98
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HAVERFORD COLLEGE

JOHN FARNUM MEMORIAL FUND.

ESTABLISHED 1878, INCREASED BY LEGACY OF ELIZABETH H. FARNUM
IN 1899

Par value of Invested Funds,	\$40,000 00
Principal uninvested,	250 00

Total fund,	\$40,250 00
Income received during the year,	1,463 54
Paid toward support of Chair endowed by this Fund,	1,463 54

JOHN M. WHITALL FUND.

FOUNDED IN 1880

Par value of Fund, all invested,	\$10,000.00
Income received during the year,	562 03
Appropriated for salaries,	562 03

EDWARD L. SCULL LEGACY.

RECEIVED IN 1885

Par value of Invested Funds,	\$11,100 00
Principal uninvested,	531 57

Total fund,	\$11,631 57
Income received during the year,	462 62
Appropriated for salaries,	462 62

DAVID SCULL FUND.

FOUNDED 1885

Par value of Invested Funds,	\$37,500 00
Principal uninvested,	6,916 23

Total fund,	\$44,416 23
Income received during the year,	2,098 41
Paid toward salaries, books, &c.,	2,098 41

RICHARD T. JONES SCHOLARSHIP FUND.

FOUNDED BY WILL OF JABOB P. JONES, 1885

Par value of the Fund, all invested,	\$5,000 00
Income received during the year,	225 00
Paid for Richard T. Jones Scholarship,	225 00

HAVERFORD COLLEGE

33

NEW LIBRARY FUND.

FOUNDED 1892

Par value of Invested Funds,	\$5,500 00
Amount uninvested,	756 43
	<hr/>
Total fund,	\$6,256 43
Income on hand at beginning of the year, ..	97 73
Income received during the year,	265 46
	<hr/>
	\$363 19
Paid for Books, &c.,	251 98
	<hr/>
Income on hand at end of the year,	\$111 21

WISTAR MORRIS MEMORIAL FUND.

FOUNDED 1892

Par value of the Fund, all invested,	\$5,000 00
Income received during the year,	245 00
Appropriated for salaries,	245 00

MARY FARNUM BROWN LIBRARY FUND.

FOUNDED 1892

Par value of Invested Funds,	\$29,500 00
Amount uninvested,	3,634 49
	<hr/>
Total fund,	\$33,134 49
Income on hand at the beginning of year,	100 00
Income received during the year,	1,379 97
Income overdrawn at end of year,	1 71
	<hr/>
	\$1,481 68
Income appropriated for books, etc.,	\$1,031 68
Income appropriated for lectures,	450 00
	<hr/>
	1,481 68

HAVERFORD COLLEGE

ISRAEL FRANKLIN WHITALL FUND.

FOUNDED 1896

Par value of Invested Funds,	\$11,000 00
Amount uninvested,	730 25
<hr/>	
Total fund,	\$11,730 25
Income received during the year,	553 51
Appropriated for salaries,	553 51

MARY M. JOHNSON SCHOLARSHIP FUND.

FOUNDED 1897

Par value of Invested Funds,	\$3,000 00
Amount uninvested,	1,374 00
<hr/>	
Total fund,	\$4,374 00
Income on hand at beginning of year,	\$ 37 88
Income received during the year,	164 95
<hr/>	
	202 83
Paid for Mary M. Johnson Scholarship,	200 00
<hr/>	
Income on hand at end of the year,	\$2 83

SARAH MARSHALL SCHOLARSHIP FUND.

FOUNDED 1897

Par value of Funds, all invested,	\$5,000 00
Income on hand at beginning of the year,	\$114 85
Income received during the year,	225 40
<hr/>	
	340 25
Paid for Sarah Marshall Scholarship,	200 00
<hr/>	
Income on hand at end of the year,	140 25

JACOB P. JONES ENDOWMENT FUND.

FOUNDED 1897

Par value of Invested Funds,	\$437,225 00
Amount uninvested,	26,048 05
<hr/>	
Total fund,	\$463,273 05

HAVERFORD COLLEGE

\$5

Income received during the year,	\$24,041 01
Appropriated for scholarships,	9,250 00
Appropriated for general expenses,	14,791 01
	<hr/> \$24,041 01

CLEMENTINE COPE FELLOWSHIP FUND.

FOUNDED 1899

Par value of Invested Funds,	\$24,400 00
Amount uninvested,	635 00
	<hr/>
Total fund,	\$25,035 00
Income received during the year,	\$1,133 81
Paid final annuity,	\$500 00
Income overdrawn at beginning of year,	70 03
	<hr/> 570 03
Income on hand at end of year,	\$563 78

JOHN FARNUM BROWN FUND FOR BIBLE STUDY AND RELIGIOUS TEACHING. ..

FOUNDED 1900 AND INCREASED LATER

Par value of Invested Funds,	\$110,000 00
Amount uninvested,	841 56
	<hr/>
Total fund,	\$110,841 56
Income received during the year,	3,594 93
Income appropriated for salaries, &c.,	\$2,800 00
Income transferred to principal,	794 93
	<hr/> \$3,594 93

ELLEN WALN FUND.

FOUNDED 1900

Par value of Invested Funds,	\$10,000 00
Amount uninvested,	205 00
	<hr/>
Total fund,	\$10,205 00
Income received during the year,	478 60
Income appropriated for general expenses,	478 60

HAVERFORD COLLEGE

SUMMARY OF THE FUNDS.

General Endowment Fund,	\$97,773 60
Thomas P. Cope Fund,	5,310 04
Edward Yarnall Fund,	6,051 24
Alumni Library Fund,	11,267 09
Isaiah V. Williamson Fund,	20,669 03
John Farnum Memorial Fund,	40,050 00
John M. Whittall Fund,	10,000 00
Richard T. Jones Scholarship Fund,	5,000 00
David Scull Fund,	44,416 23
Edward L. Scull Fund,	11,631 57
New Library Fund,	6,256 43
Wistar Morris Memorial Fund,	5,000 00
Mary Farnum Brown Library Fund,	33,134 49
Mary M. Johnson Scholarship Fund,	4,374 00
Sarah Marshall Scholarship Fund,	5,000 00
Israel Franklin Whittall Fund,	11,730 25
Jacob P. Jones Endowment Fund,	463,273 05
Clementine Cope Fellowship Fund,	25,035 00
John Farnum Brown Fund for Bible Study, &c., ...	110,841 56
Ellen Waln Fund,	10,205 00

Total par value,\$927,018 58

Being \$34,209.45 more than reported one year ago as follows:

Added gift to John Farnum Brown Fund	
for Bible Study, &c.,	\$30,000 00
From Income John Farnum Brown Fund, ..	794 93
From variation from par value in securities, bought	
and sold,	5,537 82
Income credited to Principal Account,	330 47

\$36,663 22

Less paid from Principal of Jacob P. Jones Endowment Fund for Municipal Improvements, 2,453 77

Total Increase as above,\$34,209 45

HAVERFORD COLLEGE

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SPECIAL FUND.

This fund is made up of money donated for special purposes and now awaiting application thereto, as follows:

Roberts Hall,	\$2,727 76
Salaries,	1,650 00
Electrical Apparatus,	365 00
Physical Laboratory,	125 95
Prizes, &c.,	100 33
	<hr/>
	\$4,969 04

We have examined the accounts of the Treasurer of The Corporation of Haverford College for the year ending Eighth Month, 31st, 1903, of which the foregoing is a summary. We have compared his statement with the vouchers therefor, and find the same correct. There was a cash balance in his hands on that date of \$766.26, exclusive of \$985.62 in the hands of the President of the College.

{ Signed } PHILADELPHIA, Ninth Mo. 29th, 1903	FRANCIS STOKES
	SAMUEL L. ALLEN
	<i>Auditing Committee</i>

We have examined the securities belonging to The Corporation of Haverford College, and find them to agree with the foregoing statement of the Treasurer.

{ Signed } PHILADELPHIA, Ninth Mo. 21st, 1903	FRANCIS STOKES
	WALTER WOOD
	<i>Auditing Committee</i>

HAVERFORD COLLEGE

CLASS CONTRIBUTIONS
FOR
NEW GYMNASIUM

Class of 1847		
Charles Hartshorne,	\$	100 00
Class of 1854		
John B. Garrett,		100 00
Class of 1860		
Theodore H. Morris,		100 00
Class of 1861		
George Wood,		1,000 00
Class of 1867		
Walter Wood,		50 00
Class of 1869		
Edward B. Taylor,		100 00
Class of 1871		
William H. Haines,		100 00
Class of 1877		
George Gluyas Mercer,		21 90
Class of 1881		
Edward Y. Hartshorne,	\$	21 90
Walter F. Price,		10 00
		<hr/> 31 90
Class of 1887		
Barker Newhall,	\$	8 70
Frederic H. Strawbridge,		120 00
		<hr/> 128 70
Class of 1889		
William Rush Dunton, Jr.,	\$	11 00
Franklin B. Kirkbride,		125 60
Daniel C. Lewis,		55 00
		<hr/> 191 60
Class of 1890		
Henry P. Baily,		33 33
Class of 1891		
Robert E. Strawbridge,		100 00

HAVERFORD COLLEGE

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Class of 1892		
Egbert S. Cary,	\$20 00	
Franklin McAllister,	25 00	45 00
<hr/>		
Class 1893		
Charles James Rhoads,		100 00
Class 1894		
Edward E. Quimby,	\$33 00	
Frank C. Rex,	25 00	
<hr/>		58 00
Class of 1895		
Alfred P. Morris,		30 00
Class of 1896		
Arthur E. Coca,	\$15 00	
J. Henry Scattergood,	55 00	
<hr/>		70 00
Class of 1897		
Francis N. Maxfield,		5 00
<hr/>		
Total Class Contributions,	\$2,365 43	

**LIST OF GIFTS TO THE LIBRARY
OF
HAVERFORD COLLEGE,
1902-03**

U. S. Government,	193
Class of 1900,	177
I. H. B. Spiers,	85
Dr. R. B. Warder,	22
Henry S. Drinker,	12
State Librarian of New York,	7
Dr. A. S. Bolles,	5
President Isaac Sharpless,	4
Amelia M. Gummere,	4
Historical Society of Delaware,	4
Mrs. E. D. Cope,.....	3
Michigan State Board of Health,	2
New Jersey State Geological Survey,	2
Ellis Yarnall,	2
Joshua L. Baily, A. E. Hancock, S. B. Parsons, R. M. Jones, New Jersey State Library, Philadelphia Maritime Exchange, Warner Fite, N. P. Shortridge, Massachusetts Board of Arbi- tration, J. Rendel Harris, J. W. Rountree, New Jersey State Geological Survey, and many others, one volume each, besides numerous pamphlets.	

DONATIONS OF MONEY DURING THE YEAR ENDING 8TH MO. 31ST, 1903

Samuel L. Allen,	\$ 200 00
Joshua L. Baily,	250 00
Ellen S. Brown,	150 00
T. Wistar Brown,	30,600 00
Cash,	500 00
Class of 1896,	20 00
Class of 1898,	10 00
Henry H. Collins,	200 00
John H. Converse,	300 00
Henry Cope,	20 00
John B. Garrett,	610 00
Philip C. Garrett,	50 00
Charles Hartshorne,	100 00
Charles S. Hinchman,	100 00
William H. Jenks,	100 00
Morris E. Leeds,	15 00
Morris & Vaux,	64 96
Charles W. Pusey,	100 00
Estate of Charles Roberts,	21 90
Lucy B. Roberts,	34,750 00
Thomas Scattergood,	100 00
Frederie H. Strawbridge,	250 00
Justus C. Strawbridge,	600 00
Edward B. Taylor,	25 00
John M. Whitall,	500 00
Francis White,	100 00
Asa S. Wing,	625 00
George Wood,	40 00
Walter Wood,	500 00
	<hr/>
	\$70,901 86

Class Contributions for New Gymnasium as per
detailed list on pages 38 and 39 2,365 43

Total Donations,\$73,267 29

ANNUAL ALUMNI PRIZE CONTEST IN ORATORY. 1903.

FOURTH MONTH, 13TH.

- "OMAR AND THE DYNAMIC FAITH,".....Arthur John Phillips
 "THE AFRICAN SPHINX IN AMERICA,".....Charles Woodard Davis
 "THE TAKING OF THE BASTILE,".....George Kingman Helbert
 "A KNIGHT OF THE CROSS,".....William Mintzer Wills
 "CHARLES SUMNER, STATESMAN OF CONSCIENCE,"
Harry Anthony Dominovic
 "THE DUTCH STRUGGLE FOR LIBERTY,".....Bernard Lester

SEVENTH ANNUAL
EVERETT MEDAL ORATORICAL
CONTEST, 1903.
Extemporaneous Speaking.

FIFTH MONTH, 21ST.

- | | |
|-------------------------------------|--------------------------|
| "SIR PHILIP SIDNEY," | Charles Stone Bushnell |
| "THE CHARACTER OF DANTE," | Thomas Kite Brown, Jr. |
| "MEXICO AND HER RULER," | Sigmund Gottfried Spaeth |
| "MODERN JOURNALISM," | Jesse Duer Philips |
| "LYNCH LAW," | Victor Wayne Wheeler |
| "THE STORY OF THE COVENANTERS," | Walter Carson |
| "RUSSIA'S POLICY TOWARD THE FINNS," | Herman Kroeberger Stein |
| "HEROISM," | Warren Koons Miller |

EXERCISES OF COMMENCEMENT WEEK, 1902

SECOND-DAY, SIXTH MONTH 8th

9.00 A. M. Entrance Examination of Freshmen.

THIRD-DAY, SIXTH MONTH, 9th

9 A. M. Entrance Examination of Freshmen.

6 P. M. Business meeting of the Phi Beta Kappa Society.

FOURTH-DAY, SIXTH MONTH, 10th

7 P. M. Alumni Collation for the Alumni and invited guests.

8 P. M. Annual meeting of the Alumni in Roberts Hall.

Address by William Wistar Comfort, Ph. D.,
A BOOK WE THINK WE HAVE READ.

The annual cricket game, Old Haverfordian XI *vs.* College XI,
played in the afternoon.

FIFTH-DAY, SIXTH MONTH, 11th—SENIOR DAY

3 P. M. Meeting of the Campus Club in Roberts Hall.

Exercises of Senior Class Day in the afternoon and evening.
(Attendance by invitation of the Class.)

SIXTH-DAY, SIXTH MONTH, 12th—COMMENCEMENT DAY

- 10.30 A. M. 1. Introductory remarks by President Sharpless.
 2. Announcement of honors and prizes.
 3. Conferring of degrees.
 4. Address to the graduates by Parker Shortridge
 Williams.

SCHEDULE OF RECITATIONS, 1902-1903

SECOND DAY.

8.30	9.30	10.30	11.30	1.30 or 2.00	3.00
	Scripture	Phil. VII. & VIII	English XI	Chemistry	
Adv. Physics		Spanish I	Econ. II	Ger. I	Ger. V
	Scripture	Adv. Lat. III	Chem. IV	Engin. IV	French III
		Math. IV	Adv. Greek	Phil. VII & VIII	
	Scripture	Physics VII	Latin II		
	Physics I			Math. IIa	Ger. II
Eng. Ia & Ib	Biology II			& IIb	
		Scripture		Greek I	Greek II

THIRD DAY.

8.30	9.30	10.30	11.30	1.30 or 2.00	3.00
Eng. VI		Phil. Xa & Xb	Physics VI	Biol. X	Latin III
Adv. Greek	Phil. IX		Math. VIII		Math. IV
Biol. Va & Vb	French II			Chemistry	
	Ger. V	Econ. I	Ger. I	French I	Bib. Lit. V
Latin II		Chem. I	Eng. X	Engin. IV	Adv. Greek
History I		Math. IIa & IIb	Eng. III		
		English II	Latin I	Engin. III	
				S. Chem. Lab.	
				Biol. I	

FOURTH DAY

8.30	9.30	10.30	11.30	1.30 or 2.30	3.00
Eng. IX		Math. XIV	Chem. IV	Chemistry	
Engin. II	Phil. VII & VIII		Hist. III	Biol. VIII	French IV
	Hist. IV	Econ. II	French III		Engin. III
	French II		German II	Ger. VI	Econ. III & IV
	Ger. V		Math. VIII	Span. I	Adv. Greek
Math. IIa & IIb		Physics I			Math. IIIa & IIIb
Math. Ia & Ib	Greek II	Biol. II		S. Phys. Lab.	
		Latin I	Greek I	Biol. I	

FIFTH DAY

8.30	9.30	10.30	11.30	1.30 or 2.00	3.00
	Math. XIV			Engin. IV	
Econ. III & IV	Bib. Lit. V			Eng. XI	French III
Phil. VI	Phil. IX			Adv. Gr.	Ger. II
	French II	Meeting		Biol. Lab.	
Latin II	Gov't I			French I	Econ. V & VI
				Biol. VIII	
Math. Ia & Ib					Biol. X
				Soph. Chem. Lab.	
				Latin I	Greek I

SIXTH DAY

8.30	9.30	10.30	11.30	1.30 or 2.00	3.00
Adv. Physics	Ger. VI	Phil. Xa & Xb	Econ. V & VI	Math. IIIa	Hist. III
Engin. II	Hist. IV			& IIIb	
Eng. IX		Econ. I	Econ. III & IV		Biol. Lab.
	French II		French I	(Phys. VII)	Lat. III
	Math. VIII		Ger. II	Ger. I	Adv. Gr.
Greek II	Gov't I	Math. IIa & IIb	Math. IV	French IV	Span. I
Math. Ia & Ib	Greek I	Chem. I		Engin. III	
		Eng. Ia & Ib	Latin I	Soph. Biol. Lab.	

SEVENTH DAY

8.30	9.30
Gov't II	Eng. V
	Math. IIIa & IIIb
Phil. VI	
Soph. Biol. Lab.	Phil. IX
Eng. III	
Math. Ia & Ib	History I

STATED MEETINGS OF THE CORPORATION AND OF THE MANAGERS

The Annual Meeting of "The Corporation of Haverford College" is held on the second Third-day in the Tenth month, at 3 o'clock P. M.

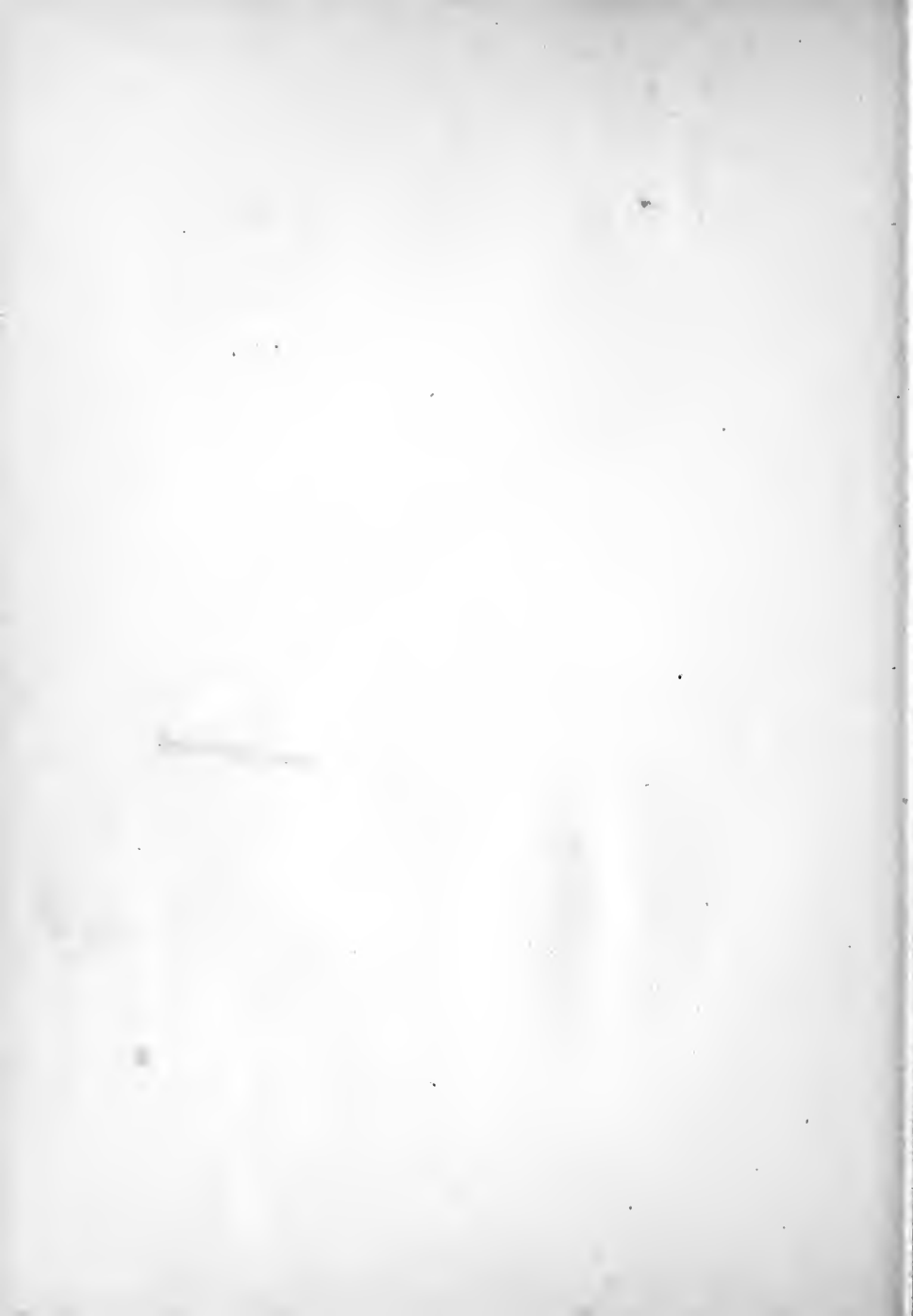
The Stated Meetings of the Managers are held on the third Sixth-day in the First, Third, Fifth, Ninth, and Eleventh months.

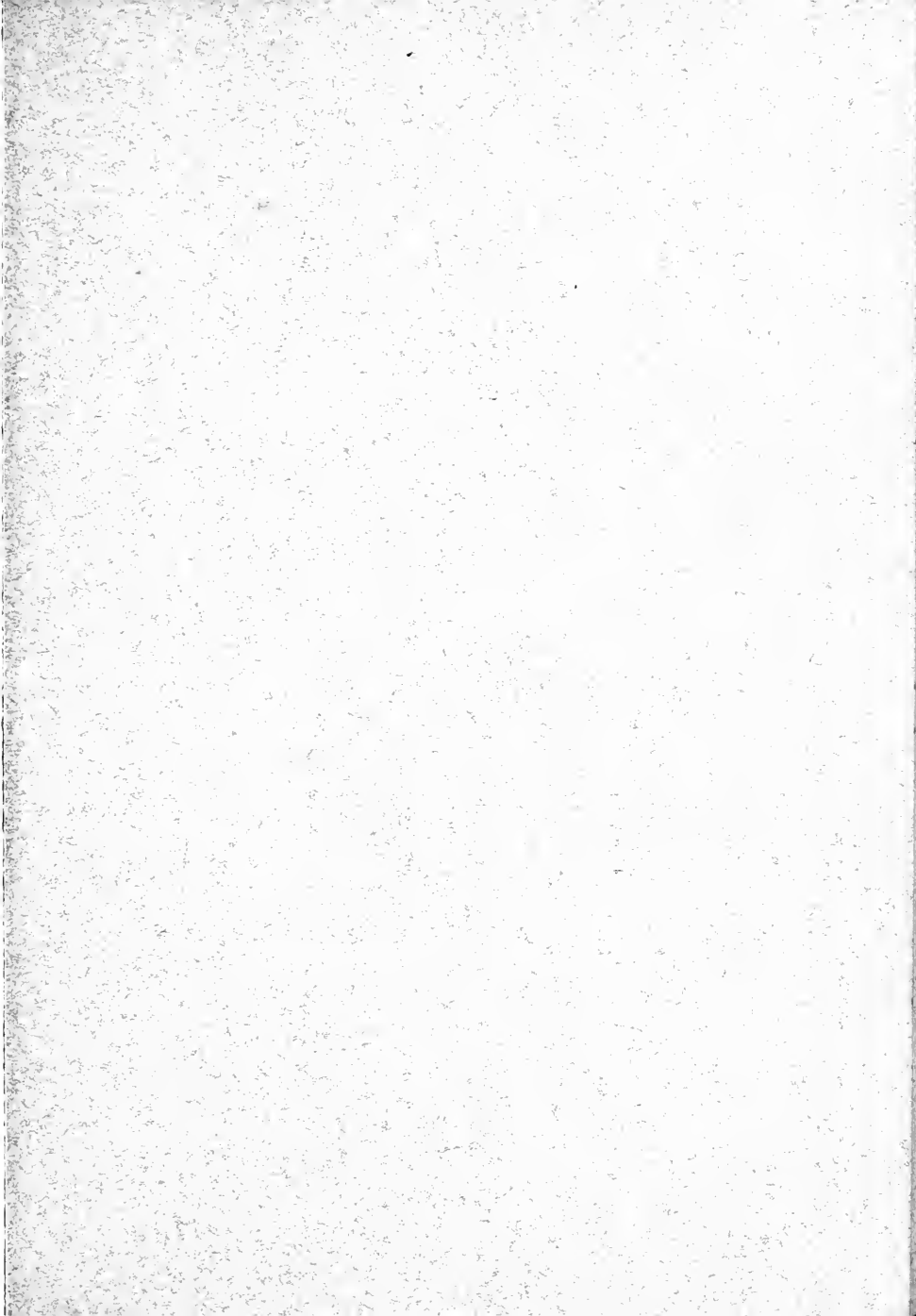
LEGACIES.

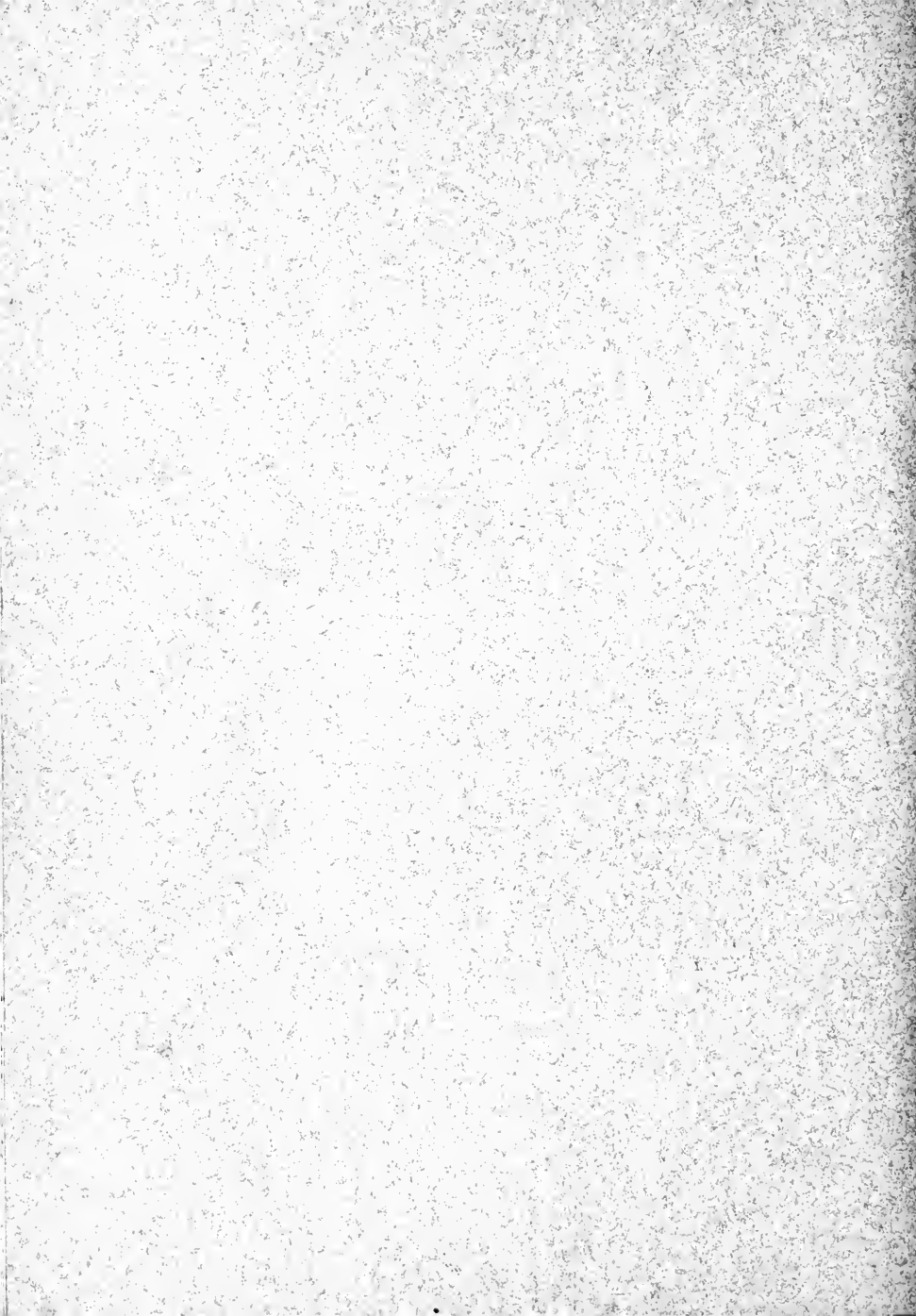
The friends of the College, including former students, and all who are interested in the promotion of sound learning, are invited to consider the College in the disposition of their estates by will.

FORM OF LEGACY.

I give and bequeath (if personal)—devise (if real)—to "The Corporation of Haverford College," the sum of (or if real estate, describe it) to have and to hold to them, their successors and assigns, to the use of the said "The Corporation of Haverford College," their successors and assigns.







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VOL. II.

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Catalogue

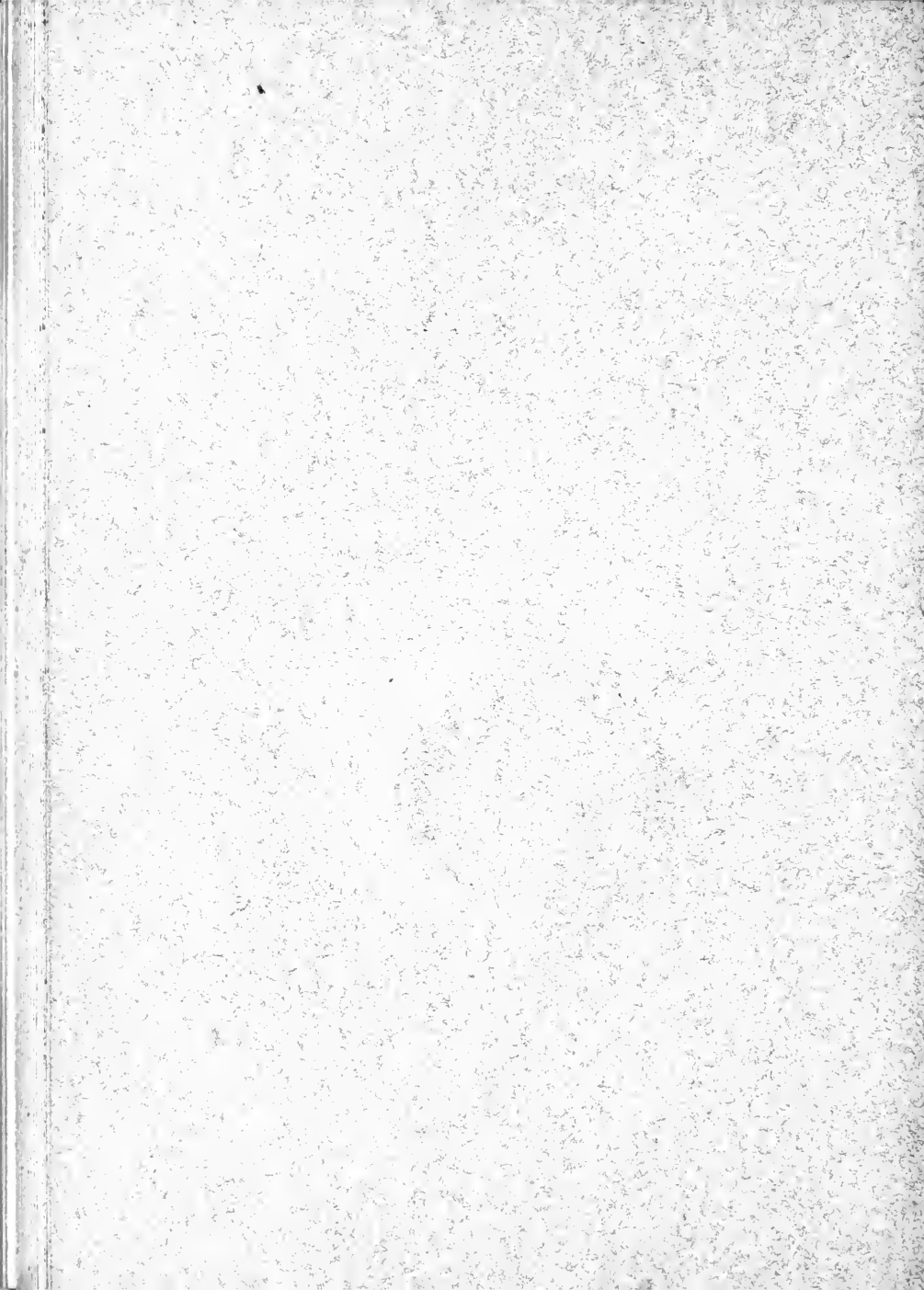
1903-1904



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CATALOGUE
OF
Haverford College
1903-1904



HAVERFORD, PA.

MADE BY
THE RECORD PRESS
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CALENDAR.

1903-1904.

College Year 1903-1904 began.....	9th Mo. 23
Winter Recess begins.....	12th Mo. 23
Winter Term begins,* 1904.....	1st Mo. 7
Second Half-year begins	2nd Mo. 1
Spring Recess begins	4th Mo. 16
Spring Term begins*.....	4th Mo. 25
Examinations for Admission	6th Mo. 6-7-8
Alumni Meeting.....	6th Mo. 8
Senior Class Day.....	6th Mo. 9
Commencement Day, 1904.....	6th Mo. 10

1904-1905.

Examinations for Admission.....	9th Mo. 26-27-28
College year 1904-1905 begins*.....	9th Mo. 28
Winter Recess begins.....	12th Mo. 23
Winter Term begins, 1905*.....	1st Mo. 9
Commencement Day, 1905.....	6th Mo. 16

*The first classes at the beginning of each term are held promptly at *half-past nine o'clock*. No absences from them are excused, unless clearly unavoidable.

HISTORY AND DESCRIPTION.

IN the spring of 1830, a meeting of a few Friends in Philadelphia, shortly followed by a similar meeting in New York, originated Haverford School. The joint committee expressed the object of the effort as follows: "The members of the Society of Friends, having hitherto labored under great disadvantages in obtaining for their children a guarded education in the higher branches of learning, combining the requisite literary instruction with a religious care over the morals and manners of the scholars, . . . and carefully preserving them from the influence of corrupt principles and evil-communications, it is therefore proposed that an institution be established in which the children of Friends shall receive a liberal education in ancient and modern literature, and the mathematical and other sciences."

The \$40,000 supposed to be necessary was raised without great effort, and the committee went out to seek a location. "We wished to procure," they say, "a farm in a neighborhood of unquestionable salubrity—within a short distance of a Friends' meeting—of easy access from this city at all seasons of the year . . . and one that was recommended by the beauty of the scenery and a retired situation." They then report that, of the many places inspected by them, the only one which combined all the advantages was one of 198½ acres (since increased to 225) "near the eight-mile stone of the Lancaster turn-

pike." They explain the present and prospective merits of the farm, the beauty of the natural woods, the unfailing springs of purest water, the nearness to the new Pennsylvania railroad, in words which the succeeding decades have amply justified.

On the 28th of Tenth month, 1833, the School opened in Founders Hall with 21 students. Provisions had been made for a superintendent and three teachers:—

A Teacher of Ancient Languages and Ancient Literature.

A Teacher of English Literature and Mental and Moral Philosophy.

A Teacher of Mathematics and Natural Philosophy.

The superintendent was to have charge of the government, order and domestic economy of the family.

The regulations of the new School were rigid. The bounds and hours of the boys were very strictly prescribed. All the details of the daily program were arranged with great care, and, if the elaborate provision of a number of wise men for the normal growth of students could convert boys into perfect men, the students of those early days had every advantage.

The School thus established grew rapidly into prosperity and debt. The charges were low, the teachers were liberally paid, and the years which followed were marked by a constant endeavor to produce a maximum of good fruits from very limited funds. The financial deficiencies were made up in a liberal spirit and a constant growth was maintained by frequent subscriptions. All the time the School was justifying the effort by the quality of its

results and making for itself an increasing number of friends.

One of the first acts of the committee, after provision for absolute necessities, was to construct a gymnasium and make arrangements for systematic physical work. They were determined that the advantage gained by the salubrity of the surroundings should not be lost for want of exercise. Under their care the lawn was graded at great expense, and foreign and native trees set out with the design to make it a great arboretum. Cricket, a game not then known elsewhere in America, was introduced and has flourished ever since. A greenhouse and a flower-garden were established and maintained for twenty years by the work of the boys. The idea that has done harm elsewhere, that schools are places for mental development only, had no foothold here; but morals, muscles, and senses received their due share of culture.

In 1845 a temporary suspension was decreed to allow the funds to accumulate and to give time for the collection of an endowment. This suspension lasted for three years.

In 1852 the Observatory was built and supplied with an 8¼-inch equatorial and a 4-inch transit. In 1856 the School was changed to a college, and was authorized by the legislature to grant degrees; but previous to this time the course had been as extended as in most colleges. It was still hampered with a preparatory department, which was not abolished till 1861. In 1863 the Alumni Hall and Library were built. In 1876-7, Barclay Hall, containing private dormitories and study-rooms, was erected at a cost of \$82,000, which was collected by subscription. The

Chemical Laboratories were improved in 1878. The new Observatory was built in 1883. The Mechanical Laboratory was established in 1884 and was provided with a new building in 1890. This was burned down in 1896, and Whitall Hall, a new three-story stone structure, was built. The Biological Laboratory was established in 1886 and the Physical Laboratory in 1888. Since then the following buildings have been added to the College equipment: Chase Hall, for lectures and recitations, in 1888; the Cricket Shed in 1893; the new Library Building in 1898; Lloyd Hall in 1899; the large and well-equipped Gymnasium, presented by the Alumni at a cost of \$50,000, in 1900, and Roberts Hall, for public lectures and College offices, in 1902-3. Various donations and bequests were received during these years, and in 1897 the Jacob P. Jones endowment, worth about a million dollars, came into the possession of the College.

During this time Haverford had developed into a fully organized college. Many rules, adapted to boys of boarding-school age, had been modified or abandoned, though enough of restraint was retained to provide against demoralization. The standard of admission was raised. Students of any denomination were admitted. The number of teachers was increased six-fold. The annual charge was increased from \$200 to \$500,* which still fails to represent what the College has to pay for professors' salaries and the board and care of students.

In Barclay and Lloyd Halls two students occupy a

*According to the situation of the room the price may vary from \$350 to \$575.

study-room, and each has his private bed-room adjoining. A few single rooms are also available. Recitation rooms, laboratories and dining-room are in Founders Hall. The Library, which now contains more than 43,000 volumes, and the Observatory, with valuable instruments, are located in separate buildings. Some of the professors live in the halls with the students, and others have houses on the grounds.

The College has a remarkably pleasant and healthful location in the township of Haverford, Delaware County,* Pa., nine miles west of the centre of Philadelphia, on the main line of the Pennsylvania railroad. The buildings are surrounded by grounds of about sixty acres, tastefully laid out, with a great variety of trees and shrubbery. The grounds provide excellent fields for cricket, football, golf, tennis and other field games, a running and bicycle track, and a pond for skating.

Retaining the old idea of a "guarded education" and "religious care over morals and manners" the College has sought to attain such ideals, and has measurably succeeded, by appeals to Christian principle and manliness, rather than by the exercise of arbitrary power.

*Haverford *Post Office* is in Montgomery County.

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Associate Professor of Mathematics

WILLIAM WISTAR COMFORT, PH. D.
Instructor in Romance Languages

GEORGE FLOWERS STRADLING, PH. D.
Instructor in Physics

JAMES WARNER HARRY, PH. D.
Instructor in Political Science

*Absent 1903-1904.

STUDENTS.

GRADUATE STUDENTS

- Arishima, Takeo, A. B., (Imperial Agricultural College of Sapporo,) *Tokyo, Japan*
 Longstreth, William Collins, A. B., (Haverford College,) *Haverford, Pa.*
 McGrew, Henry Edwin, S. B., S. M., (Penn College,) *Newberg, Oregon*

SENIOR CLASS

Andrew, Fred Van Winkle,	<i>Blanchester, O.,</i>	Arts
Blanchard, Irvin Thomas,	<i>Woodland, N. C.,</i>	Science
Bonbright, William Parker,	<i>Haverford, Pa.,</i>	Arts
Bradley, William Summers,	<i>Philadelphia, Pa.,</i>	Special
Brinton, Howard Haines,	<i>West Chester, Pa.,</i>	Arts
Burgess, Daniel Lawrence,	<i>Haverford, Pa.,</i>	Arts
Charles, John,	<i>Wichita, Kan.,</i>	Arts
Clark, Joseph Woodburn,	<i>Westtown, Pa.,</i>	Science
Crowell, Arthur,	<i>Avondale, Pa.,</i>	Engineering
Folwell, Philip Donald,	<i>Strafford, Pa.,</i>	Science
Haig, Chester Raymond,	<i>Merchantville, N. J.,</i>	Arts
Helbert, George Kingman,	<i>St. Davids, Pa.,</i>	Engineering
Hilles, William Tatum,	<i>Cincinnati, O.,</i>	Arts
Kratz, Abel Wesley,	<i>Lansdale, Pa.,</i>	Arts
Kimber, Wm. Marmaduke Cope,	<i>Germantown, Pa.,</i>	Arts
Lester, Bernard,	<i>Pasadena, Cal.,</i>	Engineering
Lindley, Luke,	<i>Avilla, Mo.,</i>	Arts
Lowry, Robert Pharo,	<i>Philadelphia, Pa.,</i>	Science
Megear, Thomas Jefferson,	<i>Philadelphia, Pa.,</i>	Engineering
Morris, Charles Christopher,	<i>Villa Nova, Pa.,</i>	Science
Morris, Harold Hollingsworth,	<i>Villa Nova, Pa.,</i>	Science
Schabacker, Harold Messner,	<i>Erie, Pa.,</i>	Arts
Sheldon, Carlos Noyes,	<i>Swanton, Vt.,</i>	Arts
Stokes, James Martin, Jr.,	<i>Moorestown, N. J.,</i>	Arts
Thomas, John Roberts,	<i>Whitford, Pa.,</i>	Science

Thorn, Henry Norman,	<i>Medford, N. J.,</i>	Arts
Trueblood, Ralph Waldo,	<i>Richmond, Ind.,</i>	Special
Wells, Bert Calvin,	<i>Hortonville, Ind.,</i>	Arts
West, Erwyn Porter,	<i>Philadelphia, Pa.,</i>	Engineering
Wills, William Mintzer,	<i>East Downingtown, Pa.,</i>	Arts
Withers, Samuel Clayton,	<i>Union Deposit, Pa.,</i>	Arts

JUNIOR CLASS

Alexander, Charles Allison,	<i>Devon, Pa.,</i>	Engineering
Boher, Sydney Morris,	<i>Shippensburg, Pa.,</i>	Arts
Bushnell, Charles Stone,	<i>Philadelphia, Pa.,</i>	Engineering
Cates, Benjamin Harold,	<i>East Vassalboro, Me.,</i>	Arts
Cookman, Harold Holmes,	<i>New York City, N. Y.,</i>	Arts
Cox, Henry Greer,	<i>Philadelphia, Pa.,</i>	Arts
Downing, Thomas Stalker,	<i>Wilmington, Del.,</i>	Engineering
Eshleman, Benjamin,	<i>Lancaster, Pa.,</i>	Arts
Evans, Ernest Mervyn,	<i>Germantown, Pa.,</i>	Arts
Fisher, Charles Worley,	<i>Philadelphia, Pa.,</i>	Arts
Fleming, Montgomery Ward,	<i>Bellefonte, Pa.,</i>	Arts
Hopkins, Arthur Haddon,	<i>Haddonfield, N. J.,</i>	Science
Jones, Harold William,	<i>South China, Me.,</i>	Arts
Jones, Paul,	<i>Wellesley Farms, Mass.,</i>	Arts
Lee, Charles Smith,	<i>Philadelphia, Pa.,</i>	Arts
Morris, Joseph Howard,	<i>Bryn Mawr, Pa.,</i>	Engineering
Murray, Effingham Cock,	<i>New York City, N. Y.,</i>	Arts
Ohl, Frederick William,	<i>Philadelphia, Pa.,</i>	Arts
Pearson, Ralph Lincoln,	<i>Germantown, Pa.,</i>	Special
Peirce, Edmund Converse,	<i>Haverford, Pa.,</i>	Arts
Priestman, Albert Glyndon,	<i>Germantown, Pa.,</i>	Science
Ritts, Elias,	<i>Butler, Pa.,</i>	Science
Scull, John Lawrence,	<i>Overbrook, Pa.,</i>	Special
Seely, Leslie Birchard,	<i>Beach Haven, Pa.,</i>	Arts
Smyth, Lindley, Jr.,	<i>Philadelphia, Pa.,</i>	Special
Spaeth, Sigmund Gottfried,	<i>Mt. Airy, Pa.,</i>	Arts

Stein, Herman Kroberger,	<i>West Chester, Pa.,</i>	Engineering
Teller, Chester Jacob,	<i>Philadelphia, Pa.,</i>	Science
Thomas, Howard Pitner,	<i>Kennett Square, Pa.,</i>	Engineering
Winslow, Edwards Fayssoux,	<i>Baltimore, Md.,</i>	Arts

SOPHOMORE CLASS

Bainbridge, Edmund Fletcher,	<i>Philadelphia, Pa.,</i>	Arts
Breyfogel, Frank Seneca,	<i>Reading, Pa.,</i>	Arts
Brown, Thomas Kite, Jr.,	<i>Westtown, Pa.,</i>	Arts
Carson, Walter,	<i>Camden, N. J.,</i>	Arts
Cary, Richard Lucius,	<i>Baltimore, Md.,</i>	Arts
Crowell, Thomas,	<i>Avondale, Pa.,</i>	Engineering
Dickson, Aubrey Cowtan,	<i>Wayne, Pa.,</i>	Arts
Doughton, Henry Warrington, Jr.,	<i>Moorestown, N. J.,</i>	Arts
Edsall, Joseph Pusey,	<i>Bryn Mawr, Pa.,</i>	Engineering
Ewing, John Martin Sharpless,	<i>Selkirk, Manitoba, Can.,</i>	Special
Fales, James Turner,	<i>Chicago, Ill.,</i>	Arts
Haines, William Henry, Jr.,	<i>Germantown, Pa.,</i>	Arts
Hopper, Harry Boardman,	<i>Narberth, Pa.,</i>	Engineering
Kennard, William, Jr.,	<i>Moorestown, N. J.,</i>	Arts
Lowry, Arthur Tilghman,	<i>Philadelphia, Pa.,</i>	Arts
Maloney, Andrew Jackson, Jr.,	<i>Philadelphia, Pa.,</i>	Special
Miller, Warren Koons,	<i>Allentown, Pa.,</i>	Arts
Monroe, James,	<i>Mt. Airy, Pa.,</i>	Arts
Morris, Francis Bolton,	<i>Villa Nova, Pa.,</i>	Arts
Mott, Joseph Walton,	<i>Springville, Iowa,</i>	Science
Nauman, Spencer Gilbert,	<i>Lancaster, Pa.,</i>	Arts
Philips, Jesse Duer,	<i>Kennett Square, Pa.,</i>	Arts
Pleasants, Henry, Jr.,	<i>Wayne, Pa.,</i>	Arts
Reid, David James,	<i>Philadelphia, Pa.,</i>	Arts
Richards, Elliott Bartram,	<i>Merion, Pa.,</i>	Arts
Scott, Roderick,	<i>Radnor, Pa.,</i>	Arts
Sheldon, Franklin Gates,	<i>Swanton, Vt.,</i>	Arts
Shortlidge, Raphael Johnson,	<i>West Chester, Pa.,</i>	Arts

Smiley, Albert Keith, Jr.,	<i>Mohonk Lake, N. Y.,</i>	Arts
Stratton, John Alfred,	<i>Philadelphia, Pa.,</i>	Science
Taylor, Francis Richards,	<i>West Chester, Pa.,</i>	Arts
Tunney, Joseph,	<i>Philadelphia, Pa.,</i>	Arts

FRESHMAN CLASS

Baldwin, Donald Cornog,	<i>Malvern, Pa.,</i>	Arts
Barr, Karl Jackson,	<i>Paris, Ill.,</i>	Special
Birdsall, Joseph Cooper,	<i>South Starksboro, Vt.,</i>	Arts
Brown, Arthur Emlen,	<i>Germantown, Pa.,</i>	Science
Brown, Paul Willits,	<i>East Downingtown, Pa.,</i>	Arts
Buzby, John Stewart,	<i>Moorestown, N. J.,</i>	Engineering
Cadbury, Richard, Jr.,	<i>Haverford, Pa.,</i>	Arts
Claassen, Cornelius Jansen,	<i>Beatrice, Neb.,</i>	Special
Comfort, George Brinton,	<i>West Chester, Pa.,</i>	Engineering
Craig, George Craig,	<i>Rosemont, Pa.,</i>	Special
Dodge, Ira Jacob,	<i>Akron, O.,</i>	Special
Eldridge, William Stauffer,	<i>Philadelphia, Pa.,</i>	Arts
Evans, Harold,	<i>Germantown, Pa.,</i>	Arts
Fritz, Henry Percival,	<i>Berwyn, Pa.,</i>	Arts
Godley, Francis Downing,	<i>Haverford, Pa.,</i>	Engineering
Gummere, Samuel James,	<i>Haverford, Pa.,</i>	Science
Haines, Wilbur Hamilton,	<i>Philadelphia, Pa.,</i>	Science
Hood, Lee Everett,	<i>Ardmore, Pa.,</i>	Arts
Lewis, Chester Preston,	<i>West Chester, Pa.,</i>	Engineering
Magill, James Phineas,	<i>West Chester, Pa.,</i>	Engineering
March, Joseph Cornell Beans,	<i>Parker Ford, Pa.,</i>	Arts
March, Michael Henry,	<i>Pottstown, Pa.,</i>	Engineering
Nicholson, John Whitall,	<i>Moorestown, N. J.,</i>	Arts
Padin, José	<i>San Juan, Porto Rico,</i>	Engineering
Rossmassler, William Ryle,	<i>Germantown, Pa.,</i>	Science
Sands, Ralph William,	<i>Hawley, Pa.,</i>	Arts
Shoemaker, Howard Hey,	<i>Philadelphia, Pa.,</i>	Arts
Tatnall, Edward Comfort,	<i>Philadelphia, Pa.,</i>	Engineering

HAVERFORD COLLEGE

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Tatnall, Emmett Robinson,	<i>Bryn Mawr, Pa.,</i>	Arts
Thomas, Fred Throckmorton,	<i>Germantown, Pa.,</i>	Arts
Thomas, James Carey,	<i>Haverford, Pa.,</i>	Arts
Warner, Alexander Nes,	<i>Titusville, Pa.,</i>	Engineering
Windle, William Butler,	<i>West Chester, Pa.,</i>	Arts
Wood, George Hallock,	<i>Macedon, N. Y.,</i>	Engineering

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ADMISSION.

Candidates for the Freshman Class are admitted on examination. No certificates are accepted.

Examinations are held twice a year, in the Sixth and the Ninth month.

They will be held at the College, except in cases of distant candidates, for whom special arrangements may be made.

In 1904 the dates will be as follows:—

Sixth month 6th, and Ninth month 26th.

9.00-10.00	Latin Composition
10.00-11.30	Latin Prose Authors
11.30-12.45	{ Latin Poets English History
1.30- 3.30	Algebra
3.30- 4.30	{ Greek Composition Physics

Sixth month 7th, and Ninth month 27th.

9.00-11.15	French
9.00-10.30	Xenophon
10.30-11.45	Homer and Sight Translation
11.45-12.45	{ Greek History U. S. History
1.30- 3.00	English
3.00- 5.00	German

Sixth month 8th, and Ninth month 28th.

9.00-11.00	Plane Geometry
11.00-12.00	Roman History

A candidate may pass a preliminary examination in some of his studies and be examined in the remaining studies in a subsequent year. A certificate will be given for the studies passed. No student will be admitted to a

preliminary examination without a certificate from his teacher specifying the subjects, in which he is prepared.

The examinations of the College Entrance Examination Board of the Middle States and Maryland will be accepted in place of corresponding Haverford examinations.

Candidates for Corporation scholarships (see page 65) must take all of their examinations not later than the Sixth month of the year of entry.

SUBJECTS FOR EXAMINATION.

ENGLISH.*

A. Reading.—Certain books are selected for reading. The candidate will be required to present evidence of a general knowledge of the subject-matter. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number set before him in the examination paper. The treatment of these topics should show the candidate's power of clear and accurate expression, and will call only for a general knowledge of the substance of the books.

The books selected for this part of the examination will be in 1904-5: Shakspeare's *Merchant of Venice* and *Julius Caesar*; The *Sir Roger de Coverley Papers* in the *Spectator*; Goldsmith's *Vicar of Wakefield*; Coleridge's *Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *Princess*; Lowell's *Vision of Sir Launfal*; George Eliot's *Silas Marner*.

*NOTE—No candidate will be accepted in English whose work is notably defective in point of spelling, punctuation, idiom, or division into paragraphs.

B. Study and Practice.—This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon the subject-matter, style and construction.

The books selected for this part of the examination will be in 1904-5: Shakspeare's *Macbeth*; Milton's *L'Allegro*, *Il Penseroso*, *Comus*, and *Lycidas*; Burke's speech on *Conciliation with America*; Macaulay's essays on *Adison* and *Milton*.

The English examination may be taken in two parts.

MATHEMATICS.

Algebra A.—The four fundamental operations, factoring, highest common factor, least common multiple, the solution of equations of the first degree in one or more unknown quantities, problems leading to such equations, powers and roots, radicals including extraction of square root of polynomials and numbers, and fractional and negative exponents.

Algebra B.—Quadratic equations in one or two unknown quantities, ratio and proportion, arithmetical and geometrical progressions and the binomial theorem for a positive integral exponent.

Algebra B cannot be taken as a preliminary examination.

Plane Geometry.—The demonstration of theorems and constructions as found in the usual textbooks. Simple original theorems, constructions and numerical exercises.

Students should have at their command a knowledge of the principal theorems, so that they may be able to apply them.

SCIENCE.—Elementary Physics.

HISTORY.

- (a) Grecian History to the death of Alexander.
- (b) Roman History to the death of Marcus Aurelius.
- (c) English History.
- (d) United States History, including the periods of discovery and colonization.

GREEK.—(a) Xenophon, *Anabasis*, Book I-IV; Homer, *Iliad*, Books I-III, omitting the Catalogue of Ships. The examination will be designed to test the candidate's knowledge of grammatical forms and constructions, and his ability to translate into idiomatic English. (b) The translation at sight of simple Attic prose. (c) The translation into Greek of a simple English passage based upon some portion of the Xenophon prescribed.

LATIN.—(a) Caesar, the *Gallic War*, Books I-IV; Cicero, the speech on the *Manilian Law*, the four against *Catiline* and the speech for *Archias*; Virgil, the *Aeneid*, Books I-VI. Other books of Caesar or speeches of Cicero may be substituted for those mentioned, if due notice is given. The examination will be designed to test the candidate's knowledge of grammatical forms and constructions, and his ability to translate into idiomatic English. (b) The translation at sight of simple Latin prose or verse. (c) The translation into Latin of a simple English passage, based upon some portion of the Cicero or Caesar prescribed.

GERMAN.—(a) The translation at sight of ordinary German prose. The passages set for translation must be

rendered into correct idiomatic English. (b) The translation into German of simple English sentences or of easy connected prose, to test the candidate's familiarity with the grammar. Proficiency in grammar will also be tested by direct questions.

The passages set for translation into English will be suited to the proficiency of candidates who have read not less than three hundred pages (including class sight readings) from works of at least three different authors. The books read in the first year German course in the College will be adequate for preparation.

FRENCH.—(a) The translation at sight of ordinary French prose. The passages set for translation must be rendered into correct idiomatic English. (b) The translation into French of simple English sentences or of easy connected prose, to test the candidate's familiarity with the grammar. Proficiency in grammar will also be tested by direct questions.

The passages set for translation into English will be suited to the proficiency of candidates who have read not less than three hundred pages (including class sight readings) from the works of at least three different authors. The books read in the first year French course in the College will be adequate for preparation.

REQUIREMENTS FOR ADMISSION, 1905.

I. *For the Course in Arts*:—

English, Algebra, Plane Geometry, Latin, two Histories* and one of the following:

- (a) Greek;
- (b) German and French;
- (c) German and Physics;
- (d) French and Physics.

II. *For the Courses in Science*:—

English, Algebra, Plane Geometry, any two Histories and one of the following:

- (a) Any two of the four languages, Greek, Latin, German, French;
- (b) Any one of these languages with Physics.

REQUIREMENTS FOR ADMISSION, 1904.

Candidates may offer the above requirements in 1904, or they may offer those given in the last catalogue as follows:—

I. *For the Course in Arts*:—

English, Algebra (including Algebra A and quadratic equations of one and two unknown quantities), Plane Geometry, Latin, two Histories* and one of the following:

- (a) Greek;
- (b) German and Solid Geometry;
- (c) French and Solid Geometry.

*Candidates presenting the Greek language must offer Grecian History, and candidates presenting Latin, Roman History.

II. *For the Course in General Science:—*

English, Algebra (as above), Plane and Solid Geometry, Physics, German, French. two Histories

III. *For the Engineering, Chemical and Preparatory Medical Courses:—*

English, Algebra (as above), Plane and Solid Geometry, Physics, Latin or German or French. two Histories

Students not able to pass all of the examinations may be admitted with a few conditions. Each case will be decided on its merits.

Students not candidates for degrees may be permitted to pursue special courses, for proficiency in which certificates may be granted; but this permission will be given only to students of ability and character sufficient to insure their success.

Candidates may be admitted to advanced classes if found proficient in all the preliminary studies of the course. Each case will be considered on its merits.

Every candidate must forward, together with his application, a certificate of good moral character from his last teacher; and students from other colleges must present certificates of honorable dismissal.

COURSES OF INSTRUCTION.

I. COURSE IN ARTS *leading to the degree of Bachelor of Arts.*—Latin and other languages offered for admission must be continued for two years. All courses given in any department are open as electives during the last two years on compliance with the necessary preliminaries.

II. COURSE IN SCIENCE *leading to the degree of Bachelor of Science.* This course is divided into four sections, for admission to any one of which a student may offer two languages or one language and Physics.

(a) *Course in General Science.*—The elective list is practically the same as in the course in arts.

(b) *Course in Mechanical Engineering.*—This course consists largely of mathematics, applied science and work in the shop and drawing room.

(c) *Course in Electricity.*—Electricity is substituted for the special mechanical work of course (b) during the last two years.

(d) *Chemical and Preparatory Medical Course.*—This course has the double purpose of training specialists in chemistry and of preparing students to enter medical schools. The latter object can also be obtained by proper electives in the courses in Arts and General Science.

COURSE LEADING TO THE DEGREE OF BACHELOR OF ARTS.

In laboratory and gymnasium work two and one-half hours must be taken for each hour given below.

FRESHMEN		Hours per Week.	
Greek I, or German II, or French II		4	
Latin I		4	
English I a, I b, II		3	
Mathematics I a, I b		4	
History I		2	
Biblical Literature IV		1	
Physiology and Physical Training		2	
SOPHOMORES		Hours per Week	
		First	Second
		Half Year.	Half Year.
Greek II, or German V, or French III	3		3
Latin II	3		3
English III	2		1
*Mathematics II a, II b, or Chemistry I	4		4
*Physics I, or Biology II	4		3
Government I			2
Biblical Literature II, or IV	1		1
Physical Training	1½		1½
JUNIORS		Hours per Week.	
Greek or Latin or Mathematics		3	
English IV or V		1	
Economics I		2	
Psychology I		2	
Biblical Literature II, III, IV or V		1	
Electives		7	
SENIORS			
English IV or V		1	
Philosophy X a and X b		2	
Biblical Literature II, III, IV or V		1	
Electives		12	

*In place of either of these groups students who take both Greek and Latin may elect four hours of advanced Greek or Latin, or German II, or French II.

COURSES LEADING TO THE DEGREE OF BACHELOR OF SCIENCE.

GENERAL SCIENCE		MECHANICAL	ELECTRICAL	CHEMICAL AND PREPARATORY MEDICAL
Biblical Lit. IV *	1	Biblical Lit. IV *	1	Biblical Lit. IV *
English Ia, Ib, II. . . .	2	English Ia, Ib, II. . . .	2	English Ia, Ib, II. . . .
History I.	3	History I.	3	History I.
Mathematics Ia, Ib . . .	4	Mathematics Ia, Ib . . .	4	Mathematics Ia, Ib . . .
German	4	German II	4	Latin I or German II
French	4	or French II	4	or French II
		Shopwork		
Biology I and Physical Training . . .	2	and Drawing	4	Chemistry I
		Biology I and Physical Training . . .	2	Biology I and Physical Training . . .
Biblical Lit. IV	1	Biblical Lit. IV	1	Biblical Lit. IV
English III	2	English III	2	English III
Mathematics IIa, IIb . .	4	Mathematics IIa, IIb . .	4	Biology II
Physics I, or Biology II	3	Physics I	3	Analytical Chem. . . .
German	3	German V	3	Latin II, or German V or French III . . .
French	3	or French III	3	
Government I	2	Government I	2	
		Shopwork		
Physical Train . 1½, 1½		and Drawing	4, 4	Physics I
		Physical Train . 1½, 1½	1½, 1½	Physical Train . 1½, 1½

(CONTINUED ON NEXT PAGE.)

FRESHMEN

SOPHOMORES

COURSES LEADING TO THE DEGREE OF BACHELOR OF SCIENCE. (CONCLUDED.)

JUNIORS			
Biblical Lit. IV or V 1	Biblical Lit. IV or V 1	Biblical Lit. IV or V 1	Biblical Lit. IV or V 1
Economics I 2			
Philosophy I 2			
English IV or V 1	English IV or V 1	English IV or V 1	English IV or V 1
Natural or Physical Science or Math 6	Math. IIIa, IIIb 3	German I 3	German I 3
	Engineering I or II 2	or French I 2	or French I 2
	Shopwork 4	Electricity 4	Organic Chemistry 2
			Analytical Chemistry 2
	Chemistry I 4	Chemistry I 4	or Biology or Physics 6
Electives 4	Electives 2	Electives 2	Electives 3
SENIORS			
Biblical Lit. IV or V 1	Biblical Lit. IV or V 1	Biblical Lit. IV or V 1	Biblical Lit. IV or V 1
English IV or V 1	English IV or V 1	English IV or V 1	English IV or V 1
Philosophy X 2	Philosophy X 2	Philosophy X 2	Philosophy X 2
	Mathematics IV 3	Mathematics IV 3	German II 2
	Engineering I or II 2	Electricity 4	or French II 4
	Shopwork and Drawing 4	Physics 2	Analytical Chemistry 2
		or Chemistry 2	or Biology or Physics 7
Electives 12	Electives 3	Electives 3	Electives 7

*Figures in these columns indicate hours per week. In laboratory, gymnasium and shop work, two and one-half hours must be taken for each hour here indicated. The double figures in the Sophomore year indicate the two half years.

GREEK.

Greek I and II are required, respectively, of Freshmen and Sophomores who present Greek for admission.

Courses III, IV and V are elective for Seniors and Juniors.

I. Lysias, *Select Orations*; Homer, *Odyssey*, Books I-XII. Sight reading. Greek composition.

[Professor Gifford 4.]

II. Plato, *Apology*, *Crito* and selections from *Phaedo*. Sight reading; Xenophon, *Memorabilia*; Aeschylus, *Prometheus*; Euripides, *Alceste*. [Professor Gifford 3.]

III. Sophocles, *Antigone*, *Oedipus Tyrannus*; Euripides, *Medea*; Aristophanes, *Frogs*. Study of other plays in English translations. [Professor Gifford 3.]

IV. a. Plato, *Gorgias*, with selections from other dialogues; b. Demosthenes, *De Corona*.

[Professor Gifford 3.]

V. a. Aeschylus, *Agamemnon*; b. Pindar, *Olympian Odes*; c. History of Lyric Poetry with illustrative reading.

[Professor Gifford 3.]

BIBLICAL LITERATURE.

II. *Greek Testament*. Interpretation of the Pauline Epistles. This course is continued through three years and is required of all Sophomores, Juniors and Seniors who present Greek for admission. [Professor Gifford 1.]

III. *Greek Testament*. Critical study of the text of the Pauline Epistles. Elective for Seniors and Juniors.

[Professor Gifford 1.]

LATIN.

Latin I and II are required, respectively, of Freshmen and Sophomores who present Latin for admission.

Courses III, IV, V and VI are elective for Seniors and Juniors.

I. Cicero, *Fourth Verrine*; Virgil, *Bucolics* and *Fourth Georgic*; Livy, Books XXI-XXII. Translation at sight. Prose composition. [Professor Mustard 4.]

II. Tacitus, *Germania* and *Agricola*; Pliny, selected letters; Horace, *Odes*. Mackail's *Latin Literature*. Translation at sight. [Professor Mustard 3.]

III. The principal Satires of Juvenal; the principal Satires and Epistles of Horace; selections from Lucretius; Cicero, *Tusculan Disputations*, Book I. Translation at sight. [Professor Mustard 3.]

IV. Virgil, *Georgics*, Books I-II; Catullus; Terence, *Adelphoe*; Plautus, *Mostellaria*; Selections from the Roman Elegiac Poets. Translation at sight.

[Professor Mustard 3.]

V. Tacitus, *Annals*, Books, I-VI; Quintilian, *Institutio Oratoria*, Book X; Cicero, *De Natura Deorum*; Merivale, *History of the Romans under the Empire*, Vols. IV-V; Giles, *Manual of Comparative Philology*. Translation at sight.

[Professor Mustard 3.]

VI. Advanced Latin Composition.

[Professor Mustard 1.]

ENGLISH LANGUAGE AND LITERATURE.

English Ia, Ib and II are required of all Freshmen; English III of all Sophomores, and English IV of all Seniors and Juniors except those electing English V. The other courses are elective for Seniors and Juniors. No student will be graduated who cannot write a creditable style extemporaneously.

Ia. *Freshman English*. Hill, *Principles of Rhetoric*; Genung, *Handbook of Rhetorical Analysis*. Exercises and discussions in syntax. Extemporaneous speeches. First half year. [Professor Hancock 2.]

Ib. *American Literature*. A brief historical and critical survey of American letters. Wendell, *Literary History of America*. Extemporaneous speeches. Weekly themes. Second half year. [Professor Hancock 2.]

II. *Freshman English Literature*. Lectures on the foundation of English literature, and on its development down to the time of Shakspeare. Readings and reports. [Professor Gummere 1.]

III. *Sophomore English*. Lectures on rhetoric and the appreciation of literature. Readings from selected authors. Weekly themes. Extemporaneous speeches. [Professor Hancock 2 first-half; 1 second.]

IV. *Senior and Junior Essays*. Four essays during the year on selected subjects. These are read and criticized by the instructor in conference with the student. [Professor Hancock 1.]

V. *Advanced Themes*. Lectures on the principles of

literary art and method. Constant practice in the various forms of composition. [Professor Hancock 1.]

VI. *Forensics*. Advanced work in extemporaneous speaking. Occasional addresses and debates. Readings in the British and the American orators.

[Professor Hancock 1.]

VII. *Early English*. Bright, *Anglo-Saxon Reader*. *Elene*. *Béowulf*. [Professor Gummere 2.]

VIII. *Middle English*. English Literature in the thirteenth and fourteenth centuries. Chaucer, *Canterbury Tales*. English and Scottish Ballads. Lectures and readings. [Professor Gummere 2.]

IX. *Elizabethan Literature*. The plays of Shakspeare. Lectures and readings. [Professor Gummere 2.]

X. *English Literature of the Seventeenth Century*. Milton. Lectures and readings.

[Professor Gummere 1.]

XI. *English Literature of the Eighteenth Century*. Lectures on the lives and works of Steele, Addison, Defoe, Swift, Pope, Johnson, Goldsmith, Burke and some minor writers. Collateral readings and reports.

[Professor Hancock 2.]

XII. *English Poetry of the Nineteenth Century*. Lectures on the lives and works of Burns, Coleridge, Wordsworth, Shelley, Byron, Keats, Arnold, Clough, Tennyson, Browning, Swinburne. Collateral readings and reports. [Professor Hancock 2.]

GERMAN.

German II is required of all Freshmen and German V of all Sophomores who present German for admission.

I. *First Year German.* German grammar and reading exercises. Thomas, *German Grammar*; Guerber, *Märchen und Erzählungen*; Heyes, *L'Arrabbiata*; Storm, *Immensee*; Hauff, *Karawane*. [Professor Hancock 3.]

II. *Second year German.* A course in the rapid reading of representative German writers. Baumbach, *Im Zwielight*; Lessing, *Minna von Barnhelm*; Schiller, *Wilhelm Tell*; Goethe, *Hermann und Dorothea* and *Götz von Berlichingen*; Heine, *Buch der Lieder*; Bürger, *Lenore*. Practice in sight reading. In addition the members of the class will read privately Hauff, *Das kalte Herz*; Sudermann, *Frau Sorge*; von Scheffel, *Trompeter von Säckingen*; Fouqué, *Undine*.

[Professor Hancock 4.]

III. *German Prose Composition.*

[Professor Gummere 2.]

IV. *Scientific German.* Rapid reading in class of difficult prose in science, history and philosophy, together with private reading of some treatise on a special subject chosen by the student and approved by the instructor.

[Professor Gummere 2.]

V. *German Literature.* Goethe, *Faust* and *Iphigenie*; Schiller, *Wallenstein*. Selections from classic authors. Readings.

[Professor Gummere 3.]

VI. *Middle High German.* Paul, *Mittelhochdeutsche Grammatik*; *Das Nibelungenlied*; poems of Walther von der Vogelweide.

[Professor Gummere 2.]

FRENCH.

French II is required of all Freshmen and French III of all Sophomores who present French for admission. French I, IV and V are elective courses for Juniors and Seniors.

I. *First Year French.* A course to give the student a knowledge of elementary grammar and a fair reading knowledge of the language. The following books will be used: Fraser and Squair, *French Grammar*; Halévy, *L'Abbé Constantin*; Mérimée, *Colomba*; Labiche, *Le Voyage de Monsieur Perrichon*; Molière, *Le Bourgeois Gentilhomme*. [Dr. Comfort 3.]

II. *Second Year French.* The object of this course is to give the student a more exact knowledge of the language and also to make him acquainted with a few specimens of the works of some of the standard French writers. Special attention will be given to composition and to sight-reading. The following books will be used: Fraser and Squair, *French Grammar*; Lamartine, *Graziella*; Loti, *Pêcheur d'Islande*; Daudet, *Contes*; Corneille, *Le Cid*; Molière, *L'Avare*; La Fontaine, *Fables*; Hugo, *Hernani*, *Super, Readings from French History*. [Dr. Comfort 4.]

III. A course to afford the student an opportunity to become acquainted with a large number of universally recognized literary masterpieces that France has produced since the sixteenth century, and also to form some idea of the general development of French literature from its beginnings to the present day. A large amount of

private reading will be done. The following books will be used: Corneille, *Polyeucte*; Racine, *Phèdre*; Molière, *Les Précieuses ridicules*, *Le Misanthrope*, *Le Tartuffe*; Bossuet, *Oraison funèbre d'Henriette d'Angleterre*; Regnard, *Le Joueur*; Voltaire, *Zaïre*; Marivaux; *Le Jeu de l'amour et du hasard*; Beaumarchais, *Le Barbier de Séville*; Hugo, *Poésies*, *Les Misérables*; Lamartine, *Poésies*; A. de Musset, *Poésies*; Balzac, *Eugénie Grandet*; Daudet, *Tartarin de Tarascon*; Augier, *Le Gendre de Monsieur Poirier*. In connection with the above the students will be required to read Petit de Julleville's *Leçons de littérature française*, or Duval's *Histoire de la littérature française*. [Dr. Comfort 3.]

IV. A lecture course treating the history of French literature from its origins to the present time. Special attention is directed to the study of literary tendencies, the development of the national spirit and the relations of the literature of France to that of other nations. A large amount of outside reading, requiring occasional written reports, is called for. This course is open only to those students who have passed creditably in French III.

[Dr. Comfort 2.]

V. A course in French conversation and advanced composition. Its object is to introduce the student to a practical knowledge of the spoken language and its idioms. The class will also write connected French prose and prepare to take part intelligently in the discussion of some topic previously announced. This course may be elected only after consultation with the instructor.

[Dr. Comfort 2.]

SPANISH.

I. An elementary course intended for those who wish the essentials of the Spanish language either for a business career or for literary work. After having mastered the principles of Spanish grammar the class will read such books as Padre Isla, *Gil Blas de Santillana*; Galdós, *Doña Perfecta*; Alarcón, *El Capitán Veneno*; Echegaray, *O' Locura o' Santidad*. [Dr. Comfort 3.]

ITALIAN.

I. An elementary course for those who wish to obtain a reading knowledge of Italian. After the essentials of Italian grammar have been mastered certain books chosen from the classic and modern writers will be read. [Dr. Comfort 3.]

MATHEMATICS.

The courses in mathematics are arranged as far as possible to suit the needs of those students who (1) take them as part of their required Freshmen and Sophomore work and do not intend to proceed further in mathematics, (2) elect them as a minor subject and take either physics, engineering or astronomy as a major subject, (3) take them as part of the required work of the Engineering course, or (4) elect them as a major subject.

Course I, II, III, IV are given every year and XIII in alternate years. The electives to be offered in any one

year will be such as the needs of the department may require. Courses on certain subjects other than those given below may be arranged by consultation either for undergraduates or graduates.

In the Library will be found some of the principal journals, treatises and collected works. There are also libraries near by where other works and journals may be consulted. In one of the lecture rooms is a collection of mathematical models.

Courses Ia and Ib are required of all Freshmen. Courses IIa and IIb are Sophomore courses.

Ia. *Algebra*, including the progressions, permutations and combinations, theory of quadratic equations, the binomial theorem, logarithms and the exponential, convergence and divergence of series, undetermined coefficients, partial fractions. Fine, *College Algebra*. *Solid Geometry*. Thompson, *Elementary Solid Geometry and Mensuration*. Half-year.

[Professor Reid 4.]

Ib. *Plane Trigonometry*, including the solution of triangles. Lyman and Goddard, *Plane Trigonometry*, *Elements of the Theory of Equations*. Half-year.

[Professor Reid 4.]

IIa. *Plane Analytic Geometry*, including that of the curves of the second degree. Tanner and Allen, *Analytic Geometry*. Half-year.

[Professor Brown 4.]

IIb. *Differential Calculus*. McMahon and Snyder, *Differential Calculus*. Half-year.

[Professor Brown 4.]

IIIa. *Integral Calculus*. Murray, *Integral Calculus*. Half year. [Professor Reid 3.]

IIIb. *Differential Equations*, elements. *Analytic Geometry of Three Dimensions*, the plane, straight line and quadric surface. Half-year. [Professor Reid 3.]

Courses IIIa, IIIb, are required of Engineering students in their Junior year and should, in general, be taken by students electing mathematics in the Junior year.

IV. *Introduction to Analytical Mechanics*; including the earlier parts of dynamics and statistics, the motion of a particle under any forces and the principal theorems in attractions and potential. This course is required of Engineering students in their Senior year.

[Professor Brown 3.]

V. *Introduction to Modern Analytical Geometry*. Half-year. [Professor Reid 2.]

VI. *Introduction to the Theory of Functions*. Prerequisite, IIIa. [Professor Brown or Professor Reid 3.]

VII. *Differential Equations*. The subject will be treated on lines similar to those of Forsyth's text-book. Prerequisite, IIIa. Half-year. [Professor Brown 2.]

VIII. *Theory of Equations*. Burnside and Panton, *Theory of Equations*. Half-year. [Professor Reid 2.]

IX. *Advanced Algebra*. The following topics will in general be discussed: rational functions, determinants, symmetric functions, invariants, groups, and the Galois theory of algebraic equations. Weber, *Algebra*. Half-year. [Professor Reid 3.]

X. *Analytic Geometry of Three Dimensions*. Theory

of surfaces and curves in space. C. Smith, *Solid Geometry*
Half-year. [Professor Reid 2.]

XI. *Fourier Series and Spherical Harmonics*; including some of the simpler applications to physical problems. Half-year. [Professor Brown 3.]

XII. *Elements of the Theory of Algebraic Numbers*. [Professor Reid 2.]

XIII. *Theoretical Dynamics*. Prerequisites, IIIa, IIIb, IV. Half-year. [Professor Brown 3.]

XIV. *Descriptive Geometry*. This course is required of Engineering students and is given in the first half of alternate years. Half-year. [Professor Reid 2.]

XV. *Natural Philosophy*. Thomson and Tait. Half-year. [Professor Brown 2.]

HISTORY.

History I is required of all Freshmen. The other courses are elective for Seniors and Juniors..

I. *History of England*. A general survey of the history of England dealing briefly with the period preceding 1845. Emphasis is laid upon the political and constitutional phases of development. Brief written tests are given fortnightly on lectures and reading.

[Dr. Harry 2.]

II. *American History*. Colonial history to 1783. [Professor Thomas 3.]

III. *American History*. Constitutional and political history of the United States from 1783 to 1870.

[Professor Thomas 3.]

Courses II and III are given in alternate years.

They are intended to show historical development, the relation of cause and effect, and to awaken in the students a consciousness of historic proportion and a sound critical sense. The instruction consists chiefly of lectures, with required private reading, consultation of authorities, frequent reports in the lecture room on special reading and occasional essays on assigned topics. The College Library is well supplied with reference books and historical literature.

IV. *Medieval History*. This course includes a survey of the civilization of Europe at the beginning of the Middle Ages and considers the decline of the Roman Empire; the Gothic invasion; the rise and fall of the Arabian civilization; the rise and decline of Charlemagne's empire; Feudalism; the Crusades; the conflicts between the Empire and the Papacy; the Reformation.

[Dr. Bolles 2.]

POLITICAL SCIENCE.

Economics I is required of all Juniors in the Arts and General Science courses. Government I is required of all Sophomores during the second half-year. The other courses in Political Science are elective for Seniors and Juniors.

A. ECONOMICS.

I. *Outlines of Economics*. A general introduction to the subject. The greater part of the year is taken up

with a study of the principles of the science, based upon such treatises as Bullock, *Introduction to the Study of Economics*, Hadley, *Economics*, and other general books. The latter part of the course is devoted to applications of economic principles. [Dr. Harry 2.]

II. *Economic History of the United States*. A general survey since 1750. A study is made of the important factors in our social, industrial and commercial life leading up to our present economic status. Among the subjects to be considered are: colonial conditions before and after the Revolution; the tariff policy and the growth of industries; the development of transportation facilities with special reference to the history and problems of railway and shipping; important measures in our financial history; immigration; the present condition of the negro. This course may be taken with Economics I.

[Dr. Harry 2.]

III. *Economic Problems*. The labor problem, socialism and monopolies. A study is made of the factory system, labor organizations, labor legislation, courts of arbitration, etc. The history of socialism and the aims and methods of socialistic organizations are investigated. The growth of industrial combinations, as affecting labor, capital, public control and management, is considered. The three topics of this course will be treated, but each year especial emphasis will be given to some one of them. Half-year.

[Dr. Harry 3.]

IV. *Money*. The ways and means of making payments and the effects produced upon prices, trade and industry. A study is made of the principles of money; bank-

credit and its uses in the form of deposits and different systems of bank-note issues; paper money and the problems connected with the suspension of specie payment in the United States from 1861 to 1879, and commercial crises. Conditions in the United States receive special attention. This course may be taken profitably with Economics VI. Half-year. [Dr. Harry 3.]

V. *Commercial Law*. An exposition of the leading principles of the law relating to contracts; who can make them; what assent is needful; what consideration is required; how interpreted and enforced. Also the law relating to particular subjects: sales, carriage of goods and passengers, agency, partnership, negotiable paper, checks, guaranty, surety, payments, interest, shipping, insurance, deeds and loans, and corporations. Half-year.

[Dr. Bolles 2.]

VI. *Banking*. The practice and most important legal principles of banking; the methods of raising the capital; modes of organizing national and state banks, savings banks, trust and finance companies; the resources of a bank and the modes of lending them; the duties of its directors, president, cashier, tellers, bookkeepers and other officials; public and private examinations and audits. The same method is pursued with respect to national and state banks, trust and finance companies. This course may be taken profitably with Economics IV. Half-year.

[Dr. Bolles 2.]

B. GOVERNMENT.

I. *Constitutional Government*. A course dealing with the elementary principles of government and with

the actual working of the governments of the United States and England. Large portions of Bryce's *American Commonwealth* are read and discussed by the class. Assigned readings on the English constitution are required. The work is supplemented by informal lectures. Half-year.

[Dr. Harry 2.]

II. *Expenditure and Revenue*. A description of the mode of expending and collecting the revenues of the national and state governments. The functions of government are briefly set forth and expenditures are classified. The mode of making expenditures by the different departments of the national government is then discussed, followed by a description of the bills appropriating money. The different kinds of taxes are next considered, the principles on which the laws are based, and the modes of administering them. The expenditures and revenues of the state are treated in the same manner. [Dr. Bolles 1.]

BIBLICAL LITERATURE AND PHILOSOPHY.

A. BIBLICAL LITERATURE.

I. *Elementary Hebrew*. (Omitted 1903-04.)

II. *Greek Testament*. Interpretation of the Pauline Epistles. This course is continued through three years and is required of all Sophomores, Juniors and Seniors who present Greek for admission.

[Professor Gifford 1.]

III. *Greek Testament*. Critical study of the text of the Pauline Epistles. Elective for Seniors and Juniors.

[Professor Gifford 1.]

IV. *Biblical Literature in English.* This course extends through four years, and consists of a survey of the history and literature of the Bible in English from the beginnings of Hebrew history down to the close of the Apostolic age. The history and literature are brought, as far as possible, into chronological connection. As introductory to the entire course, a part of the first year is devoted to a consideration of such subjects as the Canon of the Old and New Testaments, the Translations of the Bible and the History and Method of the Modern Study of the Bible. [Professor Jones 1.]

V. *English Testament.* Study of the life and writings of Paul. [Professor Gifford 1.]

Course IV is required of all Freshmen, and of those members of the Sophomore class who have not studied Greek. Course IV or V is required of all Juniors and Seniors who have not studied Greek.

VI. *The Literary Study of the English Bible.*

[Professor Gummere 2.]

B. PHILOSOPHY.

VI. *Psychology.* A course in general psychology. James's *Psychology* (briefer course) is used as a text-book, supplemented by lectures. A short series of lectures is also given on logic. [Professor Jones 2.]

VII. *Interpretation of the New Testament.* This course is devoted to a search for the original message of Christianity as expressed by the writers of the Gospels and Epistles. It consists of lectures, readings and theses. The work is all done in English. First half-year.

[Professor Jones 2.]

VIII. *Development of Christian Thought.* An examination of the great types of religious thought which have prevailed at different epochs in the history of the Church, such as the Alexandrian conception of Christianity, the Latin, the Calvinistic and the Quaker conception. Lectures, readings and theses. Second half-year.

[Professor Jones 2.]

IX. *History of Philosophy.* The chief systems of philosophy from the earliest period down to modern times. The development of theories of idealism receives especial attention. The text-books required are Weber, *History of Philosophy*, and Royce, *Spirit of Modern Philosophy*, with other reading. Lectures, discussions and theses.

[Professor Jones 2.]

Xa. *Ethics.* The important ethical theories are studied historically with a view of discovering a satisfactory criterion or basis of moral action. Each student is expected to make an exposition of some one representative system. The text-book is Muirhead, *Elements of Ethics*. Lectures and theses. Half-year. [Professor Jones 2.]

Xb. *Ethics.* In this course are considered current problems of practical ethics and sociology, such as politics, temperance, war, charity and prison administration, etc., on their moral side. Half-year.

[President Sharpless 2.]

ASTRONOMY.

The Haverford observatory affords students the means of becoming familiar with the use of astronomical

instruments, and of acquiring, from actual observation, a practical acquaintance with astronomy.

It contains two equatorial telescopes, one by Clark, having an object-glass 10 inches in diameter, and one with an object-glass of $8\frac{1}{4}$ inches, with filar micrometer and eye pieces; a polarizing eye-piece; a Newtonian reflector with a silver-on-glass speculum of $8\frac{1}{4}$ inches diameter; a prism spectroscope; a meridian transit circle having a telescope of $3\frac{3}{4}$ inches aperture with a circle at each end of the axis 26 inches in diameter; a zenith instrument of $1\frac{3}{4}$ inches aperture, with a micrometer; two sidereal clocks; one with mercurial compensation, the other used to connect with a Bond's magnetic chronograph.

The latitude of the observatory is $40^{\circ} 0' 40''$ north; its longitude, 6 minutes 59.4 seconds east from Washington.

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|---------------------------|--------------------|
| I. Descriptive Astronomy. | [W. H. Collins 2.] |
| II. Practical Astronomy. | [W. H. Collins 2.] |
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BIOLOGY.

The biological laboratory is a large, well-lighted room, which is amply equipped with microscopes, reagents and all other necessary apparatus and appliances. It also contains about two hundred biological works and zoological, anatomical and botanical charts.

The courses of the department are arranged so that students intending to study medicine may have every facility for preparation. Graduates who have completed the Preparatory Medical Course are admitted without ex-

amination to all Medical schools, and, in some of them, to the second year of their course.

Course I is required of all Freshmen through the first quarter. Course II, or Physics I, is required of all Sophomores in the Arts and Science courses.

I. *Elementary Physiology and Hygiene.* This course is preparatory to the general physical training required by the College, and includes general physiology, hygiene, a brief review of human anatomy and lectures on first aid to the injured. First quarter. [Professor Babbitt 2.]

II. *Elementary Biology.* The lectures of this course are devoted to a discussion of the fundamental principles of the structure and life-processes of animals and plants, and also to some of the more important questions relating to their origin and evolution. The laboratory periods are devoted to the practical study and dissection of typical representatives of some of the greater groups of animals and plants. Many field excursions are taken in order to study animals and plants in their natural environment.

[Professor Pratt 4 first-half; 3 second.]

Courses III to VII, inclusive, are elective, but must, with the exception of course VII, be preceded by course II.

III. *Comparative Anatomy of Vertebrates.* One lecture and two laboratory periods a week. The laboratory work of this course includes the dissection and study of a cartilaginous and a bony fish, an amphibian, a reptile, a bird, and a mammal. This course is given in alternate years with courses Va and Vb. [Professor Pratt 3.]

IV. *Morphology of Invertebrates.* This course is intended for those who may wish to make a more extended study of invertebrates than was possible in Course II.

[Professor Pratt 1 or more.]

Va. *Histology of Vertebrates.* One lecture and two laboratory periods a week. The laboratory work of this course includes a microscopical study of vertebrate tissues. The student also learns the methods of microscopical technique, the preparation of the more important reagents, the use of the microtome, etc., and he prepares or obtains about one hundred stained and mounted tissues. First half-year.

[Professor Pratt 3.]

Vb. *Embryology of Vertebrates.* One lecture and two laboratory periods a week. The laboratory work of this course is devoted to the study of the embryology of the chick and of the frog. Second half-year.

[Professor Pratt 3.]

Courses Va and Vb are given in alternate years with course III.

VI. *General Botany.* One lecture and one laboratory period a week. The laboratory work of this course consists of the dissection and structural study of typical representatives of the principal groups of plants.

[Professor Pratt 2.]

VII. *Evolution and Heredity.* Lectures and supplementary readings. The development of the evolutionary idea is traced from the time of the Greeks to the present time, and the systems of Lamarck and Darwin and their followers are described and discussed. The growth of our knowledge of the facts of heredity is studied and the

theories of Darwin, Weismann, Mendel and others are discussed. [Professor Pratt 1.]

Courses VI and VII are given in alternate years.

VIII. *Human Anatomy*. A general course in anatomy intended especially for preparatory medical students and prospective teachers of physical training. The department is equipped with a skeleton, manikin, enlarged models of the eye, ear, throat and heart, and numerous charts to aid in practical work. A complete set of individual bones, including a disarticulated skull, affords opportunity for the study of osteology. The outline includes a study of the brain and spinal cord, and, as far as time permits, a study of the eyes, the ear, and the throat. The course is supplemented by attendance upon medical clinics and by occasional visits to the anatomical museums of the city.

[Professor Babbitt 2.]

IX. *Applied Anatomy and Physiology*. A course offering special work in preparation for the teaching of physical training. It may be combined with courses VIII and X.

[Professor Babbitt 2.]

X. *Advanced Physiology*. While primarily intended to fill the requirements of the Preparatory Medical course, this course is made general and is open to all Juniors and Seniors. It consists of one hour of recitation and one laboratory period a week. Suitable apparatus is provided for practical and experimental work upon muscle and nerve preparations; examination and tests of blood and secretions; production of artificial digestion; functional study of the heart, general circulation, special

senses, etc. This course may be modified to suit the needs of the course in normal physical training.

[Professor Babbitt 2.]

CHEMISTRY.

The large chemical laboratory affords opportunity for elementary or advanced special work, with ample facilities for its prosecution. The professor and his assistant are in constant attendance. The laboratory work comprises elementary experiments in general chemistry; the preparation of a number of pure compounds; qualitative and quantitative analysis, and experimental work illustrating chemical laws and theories. Chemistry I or Mathematics II is required of all Sophomores in the Arts and General Science courses. Chemistry is required of all Freshmen in the Chemical and Preparatory Medical courses and of all Juniors in the Mechanical and Electrical courses.

I. *Elementary General Chemistry.* In this course students will probably have two lectures or recitations and two laboratory periods a week. The preparation, properties and uses of the more important elements and inorganic compounds are discussed in the lectures and are illustrated by experiments. In the laboratory the time is given mainly to the preparation and study of the non-metallic elements and a few of their compounds.

[Professor Hall 4.]

II. *Qualitative Analysis.* The exercises are mainly practical, but there is, each week, at least one lecture or

examination. Although the instruction is devoted chiefly to the methods of qualitative analysis, it is expected that the student will increase materially his knowledge of general chemistry by following this course.

[Professor Hall 2 or more.]

III. *Quantitative Analysis*. The simpler gravimetric and volumetric methods of analysis are studied. The calibration of flasks and burettes is also included.

[Professor Hall 2 or more.]

IV. *Organic Chemistry*. This course consists of lectures, recitations and laboratory work throughout the year. It will be found useful not only to those intending to become chemists, but also to students of biology and medicine.

[Professor Hall 2.]

V. *Advanced Quantitative Analysis*. This course is a continuation of course III, but includes the analysis of silicates and other complex compounds, the examination of water, milk, butter, iron, steel, etc.

[Professor Hall 2 or more.]

PHYSICS.

The Department of Physics occupies six rooms in the west end of Founders Hall, well arranged both for laboratory work and for lectures. The apparatus for lecture demonstrations has been carefully chosen to illustrate the principal phenomena dealt with, and the laboratory is furnished with a large number of excellent standard forms of apparatus. The department is also well equipped with the usual forms of elementary apparatus. The elec-

trical apparatus includes several dynamos and motors, Weston and other ammeters and voltmeters, a Leeds and Northrup potentiometer, a good variety of Thomson and of D'Arsonval galvanometers, a fine Wheatston bridge, made by Eliot Brothers, together with numerous other bridges, condensers, standard units, etc. The laboratory is supplied throughout with both gas and electric light, and electric currents are obtained either from a storage battery or from a dynamo.

The courses to be given in 1903-1904 are given below ; additional courses may, however, be announced later.

I. *Elementary Physics*. This course is an elective with Biology in the Sophomore year. It includes two or three lectures or recitations and one laboratory period a week throughout the year. The subjects taken up are mechanics, sound, heat, light, electricity and magnetism. J. S. Ames, *Theory of Physics*, is used in the class work, and Ames and Bliss, *Experiments in Physics*, is used in the laboratory. The lectures are illustrated throughout by experiments and the laboratory work is arranged to supplement the class work. The experiments performed by the students are all quantitative in character, accurate measurement being taught in all the subjects treated. [Dr. Stradling 4 first-half ; 3 second.]

II. *Electricity and Magnetism*. This course is intended to follow course I and is designed for students in general science and for those taking up a technical line of work. It consists mainly of laboratory work, supplemented by lectures and readings.

[Dr. Stradling 2 or more.]

III. *Light, Heat, Properties of Matter.* This course must be preceded by course I and may be taken with course II, making two lectures and two or more laboratory periods a week. [Dr. Stradling 2 or more.]

VI. *Electricity.* Elementary instruction by textbook and lectures, in electrical quantities and units; the principles of electrical measuring instruments, dynamos, motors and transformers. The course includes experiments with dynamos and motors, such as making characteristic curves, the measurement of efficiency, etc. The practical phases of electricity are considered.

[Professor Edwards 2.]

VII. *Electricity.* This course is intended to follow Course VI. It begins with laboratory experiments by the student, involving the use of refined measuring instruments and the absolute measurement of electrical quantities. It embraces also, in more detail than Course VI, the study of the design, construction and operation of dynamos, direct and alternating; the theory of the transformer, the transmission of electrical energy and the modern applications of the electric current. The practical phases of electrical engineering, such as the wiring of buildings, the installation of electrical machinery, etc., are taken up as far as time permits.

[Professor Edwards 2.]

GEOLOGY.

I. *Elementary Geology.* A discussion of the general principles of the science, Le Conte's *Geology* being used

as a text-book. Excursions are taken occasionally in which the physiographical and geological features of the country about Haverford are studied, and trips are made to the important paleontological and mineralogical collections of Philadelphia. [Professor Pratt 2.]

ENGINEERING.

The Engineering Department occupies a commodious stone building, three stories high, erected during the summer of 1896. The entire equipment is new and of the best quality. The wood-working room affords accommodation for fourteen students at one time. The benches are provided with quick action vices and a complete set of carpenter's tools for each student. This shop contains a 36" band saw and two wood lathes. The iron-working room contains a 24" x 12' Blaisdel engine-lathe and three smaller engine-lathes; a 24" x 24" x 6' planer; a Becker-Brainard universal milling machine; a Gould and Eberhardt 16" shaper; two drill presses; several vices and complete sets of machinists' tools for bench work. Steam engine indicators and electrical measuring instruments, in connection with the central heating and lighting plant, afford good opportunity for engine and dynamo testing. The third story of the building is devoted to drawing and is a commodious and well-lighted room.

The instruction begins with a series of graded exercises which teach accuracy in the use of tools and illustrate the principles of machine construction. This is followed by practice in the construction of parts of machinery and the building of complete machines.

The students are taken, from time to time, to visit machine shops and engineering constructions in Philadelphia and vicinity.

Students in Mechanical Engineering spend at least five hours a week for four years in the shop, and students in Electrical Engineering five hours a week for two years. In addition the following technical mechanical courses are given. For the corresponding electrical course see under the head of Physics.

I. First Half Year: a study of the construction of modern steam engines, boilers, condensers, pumps, etc., followed by the thermo-dynamic principles involved in the operation of the steam engine.

[Professor Edwards 2.]

Second Half Year: a study of the materials employed in engineering constructions, including the manufacture and properties of iron in all its commercial forms of cast iron, steel and wrought iron; the making of alloys, the strength, elasticity and ductility of metals; the strength of timbers, shafting, girders, trusses, etc.

[Professor Edwards 2.]

II. First Half year: Descriptive Geometry. [Mathematics XIV.]

[Professor Reid 2.]

Second Half year; a study of the mechanical movements employed in machinery; various methods of transmitting and transforming motion; a detailed study of the teeth of wheels. This course includes a series of problems in invention to be solved by the student.

[Professor Edwards 2.]

III. *Practical Mechanics.* This course extends through four years for engineering students. It begins with simple exercises in wood-working, embracing sawing and planing, and progresses through graded exercises in joinery of all kinds, turning and pattern-making. One year is usually spent in this department, unless the student has previously had practice in wood-working.

The iron-working is begun regularly at the beginning of the Sophomore year. Bench work in filing, chipping and scraping occupies about one year. A considerable degree of skill is required in this work, as it is the most valuable part of the course in training hand and eye for accurate mechanical work.

The remaining two years are devoted to the use of the various machine tools in executing a series of graded exercises and, finally, in the construction of a complete machine, such as a lathe or engine.

[Professor Edwards, with skilled assistants, 2 or more.]

IV. *Mechanical Drawing and Machine Design.* A course beginning with the elementary projection of solids and complicated intersections and embracing the design of plain and bevel gear wheels (cycloidal and involute), worm gearing, the Stephenson link motion for reversible steam engines, etc. The course concludes with the design of a steam engine or gasoline motor and complete detail drawings of all working parts. Students in Mechanical Engineering spend at least five hours a week for four years in the drawing room, and students in Electrical Engineering five hours a week for two years.

[O. M. Chase 2 or more.]

PHYSICAL TRAINING.

The new Gymnasium contains a main floor, sixty by ninety feet, abundantly equipped with the most improved American and Swedish gymnastic appliances and circled by an inclined running track, five feet in width. Adjoining the main floor are offices for the use of the director in physical examination and measurement. These rooms may be further utilized for special work by students taking advanced courses in anatomy and physiology, preparatory to medicine, and by those electing normal courses in physical training. Adjoining the main hall is located a large and comfortable reading room. Above are a trophy room and apartments for the use of the alumni.

The following periodicals are taken by the Reading Room:—

American Cricketer, Bicycling World, Cosmopolitan, Field and Stream, Forest and Stream, Golf, Gymnasium Magazine, Harper's Weekly, Life, London Graphic, McClure's Magazine, Puck, Recreation, Rudder, Sports and Pastimes, Yachtsman.

The basement contains dressing rooms, a number of well-ventilated lockers, shower baths and a swimming pool. There is also a special dressing room for the use of the faculty and visiting athletic teams, and a double bowling alley.

A thorough physical examination is given to all students upon entrance, and another at the end of the Sophomore year. They must be physically eligible before rep-

representing the college upon foot-ball, gymnasium or athletic teams.

The work of the department begins with a course of lectures upon anatomy, physiology and hygiene, given to the Freshman class during the first quarter of the college year. This is followed by systematic gymnastic drill during the two succeeding quarters, four periods a week.

A similar course of three periods a week is required during the Sophomore year and elective courses are open to Seniors and Juniors.

The student must take one of the following courses :

I. A course in modified Swedish educational gymnastics.

II. A course in general light and heavy gymnastic work similar to that given in our large universities.

III. Regular practice with the candidates for the college gymnastic team, for entrance to which gymnastic ability and physical qualifications are requisite.

For additional courses in anatomy and physiology, see pages 47-48-49.

THE LIBRARY.

The College Library now contains over 43,000 volumes, besides numerous pamphlets. It is arranged with the object of making it especially useful as a library of reference. The greater part of the collection has been recently classified and recatalogued according to the expansive system and new cards have been written and arranged on the dictionary plan. The students have free

access to the shelves and the librarian and his assistants are, at all times, ready to give aid in the use of the library.

About \$1800 are expended yearly for the purchase of books and periodicals. The library is a regular depository of the United States Government, and several hundred volumes of publications are annually received.

The following literary and scientific periodicals are taken:

Acta Mathematica	Beiträge zur Geschichte der deutschen Sprache und Litteratur
Advocate of Peace	Biological Bulletin
American Friend	Bird Lore
American Historical Review	Bookman
American Journal of Archæology	British Friend
American Journal of Mathematics	Bulletin Astronomique
American Journal of Theology	Bulletin des Sciences Mathématiques
American Journal of Philology	Bulletin of American Mathematical Society
American Journal of Science	Bulletin of the Department of Labor
American Machinist	Bulletin of Bibliography
American Naturalist	Cassier's Magazine
Anglia	Catalogue of U. S. Public Documents
Anglia Beiblatt	Century Magazine
Annalen der Physik	Chicago Banker
Annals of American Academy	Classical Review
Annals of Mathematics	Columbia University Quarterly
Archiv für lateinische Lexicographie	Commercial and Financial Chronicle
Astronomical Journal	Comptes Rendus de l'Académie des Sciences
Astronomische Nachrichten	Congressional Record
Astrophysical Journal	Consular Reports
Athenæum	
Atlantic Monthly	
Australian Friend	
Banner and Herald	
Beiblätter für die Annalen der Physik	

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| Contemporary Review | Journal of the American Chemical Society |
| Critic | Journal of the Chemical Society |
| Cumulative Index | Journal de Mathématiques |
| Department of Labor Bulletin
(New York) | Journal of Political Economy |
| Dial | Journal of the Franklin Institute |
| Economist (London) | Journal of English and Germanic Philology |
| Edinburgh Review | Journal für die reine u. angewandte Mathematik |
| Educational Review | Journal of the Society of Chemical Industry |
| Electrical World | Library Journal |
| Electrician | Literary News |
| Engineering Mechanics | Literaturblatt für germ. u. rom. Philologie |
| Englische Studien | Living Age |
| English Catalogue of Books | Mathematische Annalen |
| Era | Messenger of Peace |
| Experiment Station Record | Mind |
| Expositor | Missionary Review |
| Expository Times | Modern Language Notes |
| Forum | Modern Philology |
| Forest Leaves | Monthly Notices of Royal Astronomical Society |
| Fortschritte der Mathematik | Monthly Summary, Commerce and Finance |
| Friend (London) | Nation |
| Friend (Philadelphia) | Nature |
| Friends' Intelligencer and Journal | Nineteenth Century and After |
| Friends' Missionary Advocate | North American Review |
| Friends' Quarterly Examiner | Official Gazette of the U. S. Patent Office |
| Good Government | Outlook |
| Harper's Magazine | Pedagogical Seminary |
| Harper's Weekly | Pennsylvania Magazine |
| Hartford Seminary Record | Philosophical Magazine |
| Harvard Graduates' Magazine | |
| Herald of Peace | |
| Hibbert Journal | |
| Independent | |
| International Quarterly | |
| Johns Hopkins University Circulars | |
| Johns Hopkins University Studies in History, Etc. | |

Philosophical Review	Science
Political Science Quarterly	Science Abstracts
Popular Science Monthly	Scientific American
Post Graduate Wooster Quarterly	Scientific American Supplement
Princeton University Bulletin	Scribner's Magazine
Proceedings of the Academy of Natural Science	Sound Currency
Proceedings of American Philo- sophical Society	Southern Workman
Proceedings of the Society for Psychical Research	Spectator
Psychological Review	Terrestrial Magnetism
Publishers' Weekly	Transactions of the American Math- ematical Society
Publications of the Modern Lan- guage Association	University Record (Chicago Univ.)
Quarterly Journal of Economics	War or Brotherhood
Quarterly Journal of Mathematics	Wochenschrift für klassische Phil- ologie
Quarterly Review	Yale Alumni Weekly
Review of Reviews (American)	Yale University Bulletin
Revue des Deux Mondes	Zeitschrift für Anorganische Chemie
Rheinisches Museum für Philologie	Zeitschrift für Physikalische Chemie
Romania	Zoologischer Anzeiger
	Zoologisches Centralblatt

The Library is open from 8.30 A. M. to 6 P. M. While designed especially for the use of the officers and students, others have the privilege of consulting, and, under certain restrictions, of withdrawing books.

The Library is under the charge of Allen C. Thomas, Librarian.

PUBLIC LECTURES, 1902-1903

Dr. Francis Greenwood Peabody, Plummer Professor of Christian Morals in Harvard University, three lectures on "The Religion of an Educated Man."

"Religion and Education." Fourth month thirtieth.

"The Message of Christ to the Scholar." Fifth month first.

"Knowledge and Service." Fifth month second.

John William Graham, M. A., Principal of Dalton Hall, Manchester, England, "The Failure of Luxury." Ninth month twenty-sixth.

GRADING OF STUDENTS.

STUDENTS are classified, according to their grades, into five sections, A, B, C, D, E. Each student is notified of the section to which he has been assigned, but the grades are not published. Section E is composed of those who cannot be advanced to the next class or receive their Bachelor's degree. Daily recitations, hour examinations and final examinations are all utilized in determining the standing of a student.

ADVANCED DEGREES.

Graduates of Haverford College of three years' standing may take the degree of Master of Arts or of Master of Science by passing an examination on some literary or scientific course of study which shall have received the approval of the Faculty. Such a course must be equivalent to one year's uninterrupted study.

Candidates who are examined may also be required to hand in dissertations on topics in the field of study which they have specially investigated.

Resident graduates, who have completed an adequate course of study, may be admitted to an examination for a second degree at the expiration of one or two years.

Notice of application for examination must be given to the President two months before Commencement. The examination for non-residents will be held during the last week in Fifth month. The fee for the Master's diploma is twenty dollars, to be paid in all cases before the 1st of Sixth month.

Adequate courses of study for the Master's degree will be arranged on application to the President.

ROOMS.

A student who continues in the College may retain the room he already occupies. The vacant rooms are assigned by lot, the upper classmen having first choice. About one-fourth of the rooms in Merion Cottage will be reserved for Freshmen. New students may select rooms in the order of entry. For this purpose they must fill certain blanks to be had on application to the President of the College. Signatures to these blanks are considered to bind the students (or their parents) unless they are refused by the College for failure in examination or other cause.

EXPENSES.

The charge for tuition, board and room rent varies with the location of the rooms from \$350 to \$575 a year.

The number of students for whom there is accommodation at the different rates is as follows:

Merion Cottage, 18 at \$350 each.

Founders Hall, 12 at \$400 each.

Barclay Hall, 24 at \$450 each.

" " 56 at \$500 each.

" " 2 at \$525 each.

Lloyd Hall, 16 at \$575 each.

NOTE.—The rent of rooms includes steam heat, electric light, necessary bed-room furniture and care of rooms. Students will supply their own study-room furniture, also towels and table napkins.

The charge for tuition is one hundred and fifty dollars (\$150) a year; for tuition and mid-day meal, two hundred dollars (\$200) a year.

Books and stationery will, at the option of the student, be supplied by the College and charged on the half-yearly bills. Materials consumed and breakage in the laboratories are also charged.

Bills for board and tuition are payable, three-fifths at the beginning, and two-fifths at the middle of the college year.

SCHOLARSHIPS.

I. Senior Foundation Scholarships. Five scholarships of the annual value of \$300 each are offered to graduates nominated by the Faculties of Earlham, Penn, Wilmington, and Guilford Colleges and Friends' University.

II. I. V. Williamson Scholarships. Three scholarships covering all expenses of Board and Tuition.

III. Richard T. Jones Scholarship. One scholarship covering all expenses of Board and Tuition.

II and III are so arranged that usually one is vacated each year and awarded to a Freshman.

IV. Corporation Scholarships. Sixteen scholarships of the annual value of \$300 each will be awarded after competitive examination. They are open to all applicants.

Candidates for these scholarships in the Freshman class are usually asked to answer certain questions not required of other applicants for admission. The award is made after the Sixth month examinations of each year for the following college year. Candidates in the higher classes are selected each year from those highest on the grade list in the preceding year. Four scholarships are given to each class.

V. Edward Yarnall Scholarship. One scholarship of the annual value of \$200. Open only to Friends.

VI. Thomas P. Cope Scholarship. One scholarship of the annual value of \$200. Open only to Friends who intend to teach.

VII. Sarah Marshall Scholarship. One scholarship of the annual value of \$200.

VIII. Mary M. Johnson Scholarship. One scholarship of the annual value of \$200.

IX. Day Scholarships. Eight scholarships of the annual value of \$100 each.

X. Tuition Scholarships. Twenty-four scholarships of the annual value of \$150 each. Four of these may be nominated by Westtown Boarding School and one by the Lower Merion High School, the latter for the Freshman year only.

All scholarships are given for one year only, but they may be renewed by the College (except I) if the conduct and standing of the recipient be satisfactory.

The Senior Foundation Scholarships will thus be vacated yearly, and about one-fourth of the others.

Except IX and a few of X all scholarships involve residence at the College.

THE CLEMENTINE COPE FELLOWSHIP.

This fellowship, of the annual value of \$500, may be awarded by the Faculty to the best qualified applicant from the Senior class. He is required to spend the succeeding year in study at some American or foreign university approved by the Faculty.

PRIZES.

Alumni Prizes for Composition and Oratory.

The Association of the Alumni, in the year 1875, established an annual prize of \$50, either a gold medal or an equivalent value in books with a bronze medal, for excellence in composition and oratory.

The following are the rules governing the competition:

I. The Alumni medal is offered yearly to the competition of the members of the Senior and Junior classes, as a prize for the best delivered oration prepared therefor.

II. Three or five judges shall be appointed from year to year by the

Alumni Committee, who shall hear publicly, in Roberts Hall, all competitors who may be qualified to appear.

III. No oration shall occupy in delivery more than fifteen minutes.

IV. In making the award, while due weight is given to the literary merits of the oration, the judges are to consider the prize as offered to encourage more especially the attainment of excellence in elocution.

V. The judges shall have the right to withhold the prize if the elocution and the literary merits of the oration fall below a creditable standard of excellence.

The Everett Society Medal.

This silver medal is offered by the donor to the members of the two lower classes for competition in oratory. It is given in memory of the old Everett Society.

John B. Garrett Prizes for Systematic Reading.

Four prizes in books, of \$40, \$30, \$20 and \$10 respectively, will be given to those members of the Junior class who, having creditably pursued their regular studies and paid proper attention to physical culture, shall have carried on the most profitable course of reading in standard authors during the Sophomore and Junior years.

The direction of the work and the decision in the award of the prizes shall be in the hands of a committee consisting of the President, the Librarian and the Professor of English.

There will be an oral examination to determine the scope and quality of the reading, and a thesis treating of subjects embraced in the course will be required.

Any or all of these prizes may be omitted if, in the judgment of the committee, the work does not justify an award.

The Class of 1896 Prizes in Latin and Mathematics.

These are two prizes in books of \$10 each. They will be awarded at the end of the Sophomore year for proficiency in Latin and Mathematics respectively.

Philip C. Garrett Prizes.

These are five prizes in books of \$10 each, as follows :

- I. To the most proficient student in mathematics at the end of the Senior year.
 2. To the most proficient student in Greek at the end of the Freshman year.
 3. To the most proficient student in Latin at the end of the Freshman year.
 4. To the best writer of themes in the Sophomore class.
 5. To the member of the Senior or Junior class who shall have done the most thorough and satisfactory work in biology.
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The Class of 1898 Prize in Chemistry.

The Class of 1898 offers a prize of \$10 in books to the member of either the Senior or the Junior class, who, in the judgment of the professor in charge, shall have done

the most thorough and satisfactory work during the year in the laboratory, and in oral and written examinations.

The prize will not be awarded twice to the same student.

HONORS.

For the purpose of honors, studies are divided as follows:

a. Literary group: the Greek, Latin, German and French languages, English literature, history, philosophy and political science.

b. Scientific group: astronomy, biology, chemistry, engineering, mathematics and physics.

Candidates for honors shall elect from any two studies in one of these groups at least five hours a week during the Junior year, and eight hours a week during the Senior year, and shall announce their candidacy at the beginning of the Junior year.

Highest Honors and *Honors* may be given, dependent on the judgment of the professors in charge. They will base their decisions on special examinations, or on the character of the daily work.

General Honors are awarded for a general average of ninety per cent., or over, during the Senior and Junior years.

Honors will be announced at Commencement and in the succeeding catalogue.

SOCIETIES.

The Loganian Society was established by the officers and students in 1834, and is now a debating society.

A flourishing branch of the Young Men's Christian Association, organized in 1879, has a membership embracing three-fourths of the students.

A chapter of Phi Beta Kappa, the inter-collegiate honor society, was established at the College in 1898.

The Classical Club and the Scientific Society hold meetings for the reading of papers, the presentation of reports, and the discussion of such topics as may be suggested by their members.

The Campus Club is an organization of the faculty, students and other friends of the College for promoting the study and preservation of trees, shrubs, birds and wild animals on the college property.

PERIODICALS.

Haverford College Bulletin. Complete publications for the collegiate year in uniform type and binding, including the College Reports, Catalogue, Athletic Annual, and other matter. Issued five times a year.

The Haverfordian, founded in 1879, is the student paper published monthly during the college year.

DEGREES, PRIZES AND HONORS GRANTED
IN 1903

At the Commencement in 1903, degrees were granted after examination to the following graduates :

MASTER OF ARTS

John Gyger Embree

Elliot Field

Walter Swain Hinchman

BACHELOR OF ARTS

Franklin Elverson Barr

George Peirce

Henry Joel Cadbury

Arthur John Phillips

Clarence Raymond Cornman

Elias Nathan Rabinowitz

Harry Anthony Dominovich

Robert Louis Simkin

James Blathwaite Drinker

Israel Sheldon Tilney

Enoch Farson Hoffman

Samuel Norman Wilson

John Emory Hollingsworth

Fitz Randolph Winslow

Hervey Macy Hoskins

Joseph Kent Worthington

BACHELOR OF SCIENCE

Edwin Brooke Bateman

Carey Vandervort Hodgson

Charles Woodard Davis

Howard Moffitt Trueblood

Otto Eugene Duerr

Irving White

PRIZES.

The Haverford Fellowship (\$500) for 1903-1904, was awarded to
Harry Anthony Dominovich

The Alumni Prize in Composition and Oratory (\$50 in books) was
awarded to

Charles Woodard Davis

Honorable Mention, Bernard Lester

The Everett Society Medal for Oratory for Sophomores and Freshmen was
awarded to

Walter Carson

Honorable Mention, Warren Koons Miller

The John B. Garrett Prizes (in books) for Systematic Reading
for Juniors were awarded to

First Prize (\$40.00) William Parker Bonbright

Second Prize (\$30) Daniel Lawrence Burgess

Third Prize (\$20) Bernard Lester

Fourth Prize (\$10) Howard Haines Brinton

The Class of 1896 Prizes (in books) in Latin and Mathematics for
Sophomores and Freshmen were awarded to

Latin (\$10) Frederick William Ohl

Mathematics (\$10) Edmund Converse Peirce

The Philip C. Garrett Prizes (in books) were awarded to

Senior Mathematics (\$10) Samuel Norman Wilson

Senior or Junior Biology (\$10) John Roberts Thomas

Honorable Mention George Peirce

Sophomore Themes (\$10) Frederick William Ohl

Honorable Mention Sigmund Gottfried Spaeth

Freshman Latin (\$10) Walter Carson

Honorable Mention James Munroe

Freshmen Greek (\$10) Elliott Bartram Richards

The Class of 1898 Prize in Chemistry (\$10 in books) for Seniors or
Juniors was awarded to

George Peirce

HONORS.

Seniors elected to the Phi Beta Kappa Society

Henry Joel Cadbury	George Peirce
Harry Anthony Dominovich	Robert Louis Simkin
Samuel Norman Wilson	

General Honors

Henry Joel Cadbury	Robert Louis Simkin
Harry Anthony Dominovich	Samuel Norman Wilson
Highest Honors in English and Greek . . .	Harry Anthony Dominovich
Honors in Chemistry	Edwin Brooke Bateman
Honors in Greek and Philosophy	Henry Joel Cadbury
Honors in Chemistry and Biology	George Peirce
Honors in Economics and Philosophy	Arthur John Phillips
Honors in Philosophy	Robert Louis Simkin
Honors in Mathematics	Samuel Norman Wilson

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These \$300 scholarships are awarded annually to the four students in each class having the highest average scholarship for the year. In some cases the money is applied, at the option of the holder, to students of greater financial need, the original recipient retaining the honor.

Holders of Corporation Scholarships for the collegiate year

1903-1904:

Class of 1904	Class of 1906
William Parker Bonbright	Thomas Kite Brown, Jr.
Chester Raymond Haig	Walter Carson
Carlos Noyes Sheldon	James Munroe
Samuel Clayton Withers	Roderick Scott
Class of 1905	Class of 1907
Charles Worley Fisher	Donald Cornog Baldwin
Ernest Mervyn Evans	John Stewart Buzby
Frederick William Ohl	Harold Evans
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HAVERFORD COLLEGE BULLETIN

VOL. II.

FOURTH MONTH, 1904

No. 3

Publications
of the
Haverford Faculty



Published by Haverford College, Haverford, Pa.
Issued Quarterly at One Dollar per Year

Entered December 10th, 1902, at Haverford, Pa.,
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PRESIDENT SHARPLESS.—*Text Book on Geometry*, 1880. *Astronomy*, 1882, (Joint Author). *English Education*, 1892. *Quaker Experiment in Government*, 1898. *Quakers in the Revolution*, 1899. *Two Centuries of Pennsylvania History*, 1902.

FRANCIS B. GUMMERE.—*Anglo-Saxon Metaphor*, Halle, 1881. *Handbook of Poetics*, Boston, 1885. *Germanic Origins*, New York, 1892. *Old English Ballads*, edited with Notes and an Introduction, Boston, 1894. *Shakspeare's 'Merchant of Venice'*, edited with Notes and an Introduction, New York, 1896. *Beginnings of Poetry*, New York, 1901. *Pecle's Old Wives Tale*, edited with Notes and an Introduction, New York, 1903.

ERNEST WILLIAM BROWN.—*Mathematical Papers*, 2 vols. various dates.

HENRY S. PRATT.—*Biological Papers*, various dates. *Invertebrate Zoology*, Boston, 1902.

RUFUS M. JONES.—*Life of Eli and Sibyl Jones*, Philadelphia, 1889. *Society of Friends in Kennebec County, Maine*, 1892. *Practical Christianity*, Philadelphia, 1899. *Dynamic Faith*, London, 1900. *Message of Quakerism*, London, 1901. *A Boy's Religion from Memory*, Philadelphia, 1902. *Journal of George Fox*, edited and abridged, with an Introduction, 2 vols., Philadelphia, 1903.

- ALBERT E. HANCOCK.—*The French Revolution and the English Poets*, New York, 1899. *Henry Bourland, the Passing of the Cavalier*, New York, 1901. *Silas Marner*, edited with Critical Introduction, Chicago, 1899.
- ALLEN C. THOMAS.—*Edward Lawrence Scull, a Memoir*, Cambridge, Mass., 1891. *A History of the United States*, Boston, 1894, revised editions 1895, 1896, 1897, re-written 1901. *History of the Society of Friends in America*, (Joint Author), New York, 1894, Revised Edition, Philadelphia, 1895. *William Penn*, Philadelphia, 1895, Revised Edition 1896. *Attitude of the Society of Friends toward Slavery in the Eighteenth Century*, New York, 1897. *Matriculate Catalogue of Haverford College, 1833-1900*, (Editor) Philadelphia, 1900. *Elementary History of the United States*, Boston, 1901, Revised Edition, 1904.
- ALBERT S. BOLLES.—*Law of Negotiable and Non-Negotiable Instruments in Pennsylvania*, Philadelphia, 1899. *Pennsylvania Province and State*, 2 vols., Philadelphia, 1899. *Legal Relation Between Employer and Employes*, Harrisburg, 1900. *Practical Banking*, Indianapolis, 1900. *Money, Banking and Finance*, New York, 1903.
- WILFRED P. MUSTARD.—*Classical Echoes in Tennyson*, New York, 1904. (In press).
- WILLIAM W. COMFORT.—*La Vida es Sueño*, by D. Pedro Calderón de la Barca, edited with notes and vocabulary, New York, 1904. (In press.)

NOTE :—Contributions to the Haverford College Studies are not included in the above list.

LIST OF BOOKS WRITTEN BY FORMER MEMBERS OF THE FACULTY OF HAVERFORD COLLEGE WHILE AT HAVERFORD.

- THOMAS CHASE.—*Hellas, Her Monuments and Scenery*, Cambridge, Mass., 1863. *Chase and Stuart's Classical Series*, 1868-1882, viz.: *Vergil*; *Livy*; *Horace*; *Cicero's Tusculan Disputations*; *Juvenal*; *A Latin Grammar*.
- PLINY EARLE CHASE.—*Elements of Meteorology*, 2 vols., Philadelphia, 1884. *Physical and Philological Papers*, various dates.
- J. RENDEL HARRIS.—*Teaching of the Apostles*, Baltimore, 1887. *Origin of the Leicester Codex*, London, 1887. *Fragments of Philo Judaeus*, Cambridge, 1886. *Biblical Fragments from Mt. Sinai*, London, 1890. *Study of the Codex Bezae*, Cambridge, 1891.
- FRANK MORLEY.—*Treatise on the Theory of Functions*, New York, 1893, (Joint Author with James Harkness). *Introduction to the Theory of Analytic Functions*, London, 1898, (Joint Author with James Harkness).
- EDWARD D. COPE.—Various Papers on the *Vertebrata*, on *Cetacea*, Etc., Etc., and on *Palaeontology*. Also on the *Theory of Evolution*, and *Origin of the Will*.
- HENRY HARTSHORNE.—*Essentials of the Principles and Practice of Medicine*, 1869, and many editions since. *Conspectus of the Medical Sciences*, 1869. *Guide to Medicine Chest*, 1869. *Hand book of Human Anatomy and Physiology*, 1869.

HAVERFORDIANS IN COLLEGIATE POSITIONS

COLLATED FROM THE MOST RECENT INFORMATION RECEIVED
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'60 C. L. Smith	Professor of Latin	Harvard University
'60 James Tyson	Professor of Medicine	Univ. of Pennsylvania
'65 A. C. Thomas	Professor of History	Haverford College
'66 A. M. Elliott	Professor of Romance Languages	Johns Hopkins Univ.
'69 Henry Wood	Professor of German	Johns Hopkins Univ.
'71 Randolph Winslow	Professor of Surgery	Univ. of Maryland
'72 F. B. Gummere	Professor of English	Haverford College
'72 R. H. Thomas	Professor of Diseases of Throat and Chest	Woman's Medical College, Baltimore
'75 J. F. Davis	Professor of Greek and German	Guilford College
'75 C. E. Tebbetts	President	Whittier College
'76 F. G. Allinson	Professor of Classic Philology	Brown University
'76 S. K. Gifford	Professor of Greek	Haverford College
'76 L. L. Hobbs	President	Guilford College
'78 G. W. White	Professor of Mathematics	Guilford College
'78 H. N. Stokes	Chemist of U. S. Geological Survey Department	
'81 W. H. Collins	Director of Observatory	Haverford College
'81 L. T. Edwards	Professor of Mechanics	Haverford College
'82 G. A. Barton	Associate Professor of Biblical Lit- erature and Semitic Languages	Bryn Mawr College
'82 Henry M. Thomas	Clinical Professor of Neurology	Johns Hopkins Univ.
'85 R. M. Jones	Associate Professor of Philosophy	Haverford College
'85 J. L. Markley	Asst. Professor of Mathematics	Univ. of Michigan
'85 A. T. Murray	Professor of Greek	Leland Stanford, Jr., University
'85 Thomas Newlin	Vice President	Guilford College
'86 T. W. Richards	Professor of Chemistry	Harvard University
'87 Barker Newhall	Professor of Greek	Kenyon College
'88 H. V. Gummere	Professor of Mathematics	Ursinus College
'88 W. D. Lewis	Dean of Law School	Univ. of Pennsylvania
'88 A. W. Slocum	Professor of Physics	Univ. of Vermont
'89 Warner Fite	Assistant in Philosophy	University of Chicago
'90 R. R. Tatnall	Instructor in Physics	North Western Univ.
'92 A. W. Blair	Instructor in Chemistry	Agricultural College, Lake City, Fla.

'92 I. H. Brumbaugh	Acting President	Juniata College
'93 C. G. Hoag	Instructor in English	Univ. of Pennsylvania
'94 O. M. Chase	Instructor in Drawing	Haverford College
'94 W. W. Comfort	Instructor in Romance Languages	Haverford College
'96 T. H. Haines	Instructor in Philosophy	Ohio State University
'97 R. C. McCrea	Assistant Professor of Economics	Bowdoin College
'98 R. W. Wilson	Professor of Chemistry	Guilford College
'01 C. O. Meredith	Assistant in Latin	Guilford College
'01 W. O. Mendenhall	Professor of Mathematics	Wilmington College
'02 Charles Evans	Instructor in English	Guilford College
'02 C. W. Stork	Assistant in English	Univ. of Pennsylvania

The following former graduate students at Haverford who hold advanced degrees may be added :

'90 C. L. Michener	Professor of Greek	Penn College
'90 R. W. Rogers	Professor of Hebrew	Drew Theological Seminary
'91 L. M. Robinson	Instructor	Episcopal Divinity School
'92 E. H. Gifford	Professor of Physics	Penn College
'00 F. H. Loud	Professor of Mathematics	Colorado College



JOHN OF ANTIOCH.*

SETH K. GIFFORD, PH. D.

The writer's purpose was to give some account of the life of Chrysostom,—known during his lifetime as John of Antioch,—the conditions under which he worked, the character of his writings and their value from a literary and scientific standpoint. The sources used were his own works and letters, contemporary church writers, and the historians of the period, Socrates and Sozomen.

The paper began with a short sketch of the intellectual activity of the second half of the fourth century, including such names as Marcellinus, Quintus, Augustine, and Prudentius. The character and educational advantages of Antioch were touched upon. In this city Libanius, the famous rhetorician, lived and taught, and in his school Chrysostom was trained for the vocation of law. That he was diverted from this pursuit and won over to the Church was due to the influence of his pious mother and in only less degree, to that of his bosom friend, Basil. This Basil, of Antioch, is not to be confused with his great namesake, Bishop of Caeserea, who was also a contemporary.

Certain epochs in his career were then reviewed and illustrated by extracts from his works, designed to show, not only the facts of his life, but the character of his writings and the features of his style. A passage of this nature was presented from the *De Sacerdotio*, the scene in which his mother entreats him to postpone until after her

*Abstract of a paper read before The Classical Club of Philadelphia, Nov. 11th, 1903.

death his purpose to withdraw to a monastic life,—a passage full of pathos and tenderness.

His wonderful influence over the people and his power as an orator were shown most strikingly during the period of suspense in Antioch, which followed the destruction of the imperial statues by the mob in 387. The vengeance of the emperor was daily expected. While the Bishop, Flavius, proceeded to Constantinople to plead for the preservation of the city, Chrysostom, who was now a presbyter, remained in Antioch and daily used all the powers of his eloquence to hearten his despairing fellow citizens. The orations of this series, twenty-one in number, entitled *De Statuis*, which were delivered on this occasion, are among the best examples of his oratory. A passage was reviewed from the last of these in which the orator, with marked dramatic power, pictures the scene of the old bishop before the emperor.

The next ten years of his life comprise the period of his best literary work and his greatest popularity as a preacher.

In 397, when fifty years of age, he was made Bishop of Constantinople. Here his simplicity of life, his outspoken denunciation of vice, and his uncompromising zeal for the purity of the Church soon brought him in conflict with a profligate court and the machinations of a corrupt clergy. His enemies, headed by the implacable and jealous Theophilus, Bishop of Alexandria, finally secured from the emperor the edict of his banishment. The last three years of his life were spent in exile at Cucusus, on the eastern confines of the empire. Yet, even here, his influence over the Church at large increased rather than abated. The

most of his letters, 242 in number, belong to this period. "The respectful attention of the Christian world," says Gibbon, "was fixed on a desert spot among the mountains of Taurus." The voluminous works of Chrysostom comprise treatises on various subjects, eulogies in honor of saints and martyrs, orations, homilies or sermons, largely exegetical in character, and letters.

The best edition of his complete works is that by D. Bernardi de Montfaucon, *Editio Parisina altera*, 1835-39.

A far more critical edition of a part of his homilies, those on the Gospel of Matthew and the Pauline Epistles, is that of F. Field, Oxford, 1845-62.

It is as an expositor of Scripture that Chrysostom has been chiefly studied. He is the best example among the Fathers of the common sense method of interpretation which marks the school of Antioch. He seeks to determine, not what the text may be fancied to mean by way of allegory, but what it actually does mean according to recognized principles of language. As a theologian, he is no stickler for verbal inspiration, though he regards the authority of the Word as supreme. Baptism is a saving ordinance and the future state of the "uninitiated" (unbaptized) is one of literal and unmitigated torture.

His homilies or sermons are, for the most part, a running commentary on a continuous portion of Scripture, closing generally with an eloquent hortatory appeal to his hearers. Such homilies as have survived cover the larger part of the New Testament as well as considerable portions of the Old, while his other voluminous writings abound in sporadic quotations of texts. From these

homilies and quotations it is possible to collect, with few lacunae, his continuous text of most of the books of the New Testament, and, as only two of our MSS. antedate Chrysostom, his value for determining the original text of the New Testament is at once apparent. The importance of this line of investigation has recently been clearly recognized by such scholars as Nestle, Blass, and Zahn.

The task, however, of rehabilitating Chrysostom's Bible is by no means an easy one. Owing to the mistaken zeal of copyists who have frequently transcribed Scripture quotations according to their own ideas, great care is necessary to distinguish between the original writing of Chrysostom and the form offered in the MSS. Often the correct reading is determined only by patient study of the context as shown by the commentary, and for this reason the readings attributed to Chrysostom by Tischendorf are found, upon closer examination, to be in many cases incompletely or incorrectly stated. It not infrequently happens that Chrysostom gives different readings for the same passage in different parts of his works. A case in point is Rom. 5:1, for which in one place, Vol. 9, p. 561, he has ἔχωμεν, and in another, Vol. 3, p. 175, ἔχομεν, each reading clearly supported by the commentary.

In many passages the form of expression indicates that he is acquainted with a variation which he rejects as unsound; in others, the reading which he himself offers is found in no other source.¹

¹For examples and critical treatment of this subject, see the writer's monograph, *Pauli epistolas qua forma legerit Ioannes Chrysostomus. Halle, Niemeyer.*

PRIMITIVE POETRY AND THE BALLAD, II.*

F. B. GUMMERE, PH. D.

Primitive verse appealed by cumulative impression to what has been called emotional community; and it was forced, by the very conditions of composition, to be objective in every way. Until the period of written verse, when a poem could be composed in private and passed down to posterity by writing or by whatever mnemonic device, mainly as it was composed, poetry had to make its appeal to emotional community, to that entity which psychologists have studied so well in its modern and fugitive form as "the mind of an audience." Primitive poetry could not appeal to private sentiment and to the individual mind under conditions where the "mind of an audience" dominated the composition of verse as well as its reception and even transmission to other places and times. The modern poet addresses a disintegrated throng; he appeals to that compound of thought and emotion which sunders itself from the mass of men, and returns to the sense of communal sympathy only upon the broadly human lines of a common fate. He has withdrawn from the crowd into his "ivory tower;" but he looks out on a world instead of a village green. He works alternately with microscope and telescope; you may see what he sees with either, but you must come singly into his tower. Do away with all this. Project that condition of "the mind of an audience" back into the past, increasing its power and scope as it recedes; as steadily reduce the power and scope of individual sentiment, of cosmic thinking; and when the pro-

*From *Modern Philology*, Vol. I, No. 11.

cess has reversed the present proportions of these two elements in poetry, there will be found approximately the conditions which ruled during the formative period of epic. True, our great epics do not come directly from the formative period; their "intellects are replenished," as anyone can see who compares them with a ballad, and it may even be that they have "drunk ink."¹ They have an artistic symmetry of design. Sundry passages show individual sentiment and even cosmic thinking; although this asserts itself mainly in comment upon the situation,² and is tentative, parenthetical, never an insistent mood. All this granted, however, it seems that criticism lays far too much stress upon such passages. The real greatness of the great epic lies in the communal elements which it holds in artistic frame, and in their quite dominant character. The main appeal is still, as in primitive times, to the emotional community, the "mind of an audience," an appeal which under modern conditions would be a renunciation of all poetic claims, but which, in the great epic, furnishes what one calls the majesty, the simplicity, the objectivity, now unattainable by poets at any price. Great passages can be found in modern poetry to match any great passages of the epic; and it is not to these that we are to look as the source of that objective and majestic power. Nor does it lie in the coherence of parts due to artistic design. Epic majesty is not an innovation, not a discovery of the epic poet, not an achievement of art; it is mainly a

¹On the question of writing, see A. LANG, *Homer and the Epic*.

²KELLER, *Homeric Society*, p. 115, says that human misery is Homer's abiding thought. Goethe, in a familiar phrase, expressed the same opinion.

survival. If it is not a survival, the refuge of that older cumulative appeal to communal emotion, what do we mean when we say that the times of the great epic are vanished beyond recall? All this concerns the epic material; but evidence of a trustworthy kind shows that the difference of appeal in subject-matter of poetry runs parallel with a difference of appeal in poetic style. Here, too, it would seem that the older art appealed by cumulative impression of details—the development of a more primitive identical repetition—to a sense of the whole; while the new art, according to critical canons the real art, appeals by imaginative provocation to a particular and detailed appreciation of parts. Roughly, this general distinction matches an older emotional, communal conception of human life, as compared with the civilized point of view which Vierkandt has called the “atomistic” or intellectual conception. The evidence of literature thus falls into line with sociological and ethenological facts.

But the communal instinct will not utterly desert us, and lurks even in the critical brain. For all our atomistic conception, for all our individual canons of art, we are ready to call no literary effort genuinely great until, after the manner of the great epics, but with a difference, it unites some cumulative impression with the provocative, sentimental, and imaginative appeal. Such a union is obtained in Shakspeare's drama as compared with one of George Chapman's noble but overweighted and intellectualized plays. So it is, although on a lower level, with the narrative comely which Fielding described in the preface to *Joseph Andrews* and fairly realized in *Tom Jones*—a great whole for which we find it impossible

to account by summing up its great parts. Such is the ideal comedy, in its search for "the mind hovering above congregated men and women," which Mr. George Meredith outlines in his fine essay¹ and works out in *The Egoist*. These, however, are the exceptions. Taking communal poetry in the mass, from the rudest savage chants up to the so-called popular epic, and taking modern poetry in the mass, from Villon's "Testament" to Browning's epilogue in "Asolando," that distinction of the formula stands out plain for eyes that are willing to see. Criticism cannot afford to ignore it and the lessons it can teach. So great a critic as Arnold, in a famous preface, went back to the cumulative appeal² in order to rebuke modern poetry and to lay a bit of blame upon Shakspeare for setting the fashion of writing fine passages; and then, years afterward, in another famous preface,³ quoting Shakspeare in all ardor, turns directly upon himself and declares that "lines and expressions of the great masters" are the tests of great poetry—atomistic instead of cumulative appeal. Utterances like these are puzzling until one reflects that in the first case a really eminent poet, who knew and loved his Homer, is prefacing his own attempt to achieve poetic objectivity, calm, impersonality of appeal, by a comparison of modern sentiment with the old epic excellence;⁴ while in the second case he is casting about for a test

¹On *Comedy*, pp. 14 f.

²That is, he not only demanded proportion and symmetry, affair of the artist, but that sense of its greatness as a whole which besets the reader of a great epic, and which belongs to the communal side of the account.

³Introduction to WARD's *English Poets*.

⁴One thinks of Goethe's passion for this old quality, and of his failures like the *Achilleis*.

which shall decide what modern poetry is really great. But the critic must not deal with historical material in this random way. He must face the formula of difference, the formula of cumulative or atomistic impression. To nearly all modern making, so individual in its appeal, one may lay the charge that the whole is less than the sum of its parts. So Arnold found when he weighed recent poetry in classical scales. But in poetry of the people, in ballads, in the spirit of epic, the sums of the parts is less than the whole. Now criticism, as Arnold showed when he stated his formula of "lines and expressions," deals mainly with the parts. Emotions converge, emotional expression runs to iteration, and the appeal to emotion makes an easy synthesis; thoughts, on the other hand, diverge, and when emotion is rationalized, one deals with sentiment and individual appreciations, where synthesis is hard. But that is precisely the usual task of criticism—synthesis of intellectual appreciations. In point of fact, let it be remembered, there were no critics so long as all poetry was mainly an appeal to emotional community; and it is said that this absence of criticism lasted through the period of rhapsodic verse.¹ The canons of criticism have been formed almost exclusively from observation of individual poetry in its appeal to an intellectual and analytic appreciation. They are valid for that sort of verse. They are not valid for a time which produced poetry without producing critics and made the cumulative appeal to "emotional community." They are to be applied to the great epic only with full allowance for the rights of

¹EGGER, *Essai sur l'histoire de la critique, chez les Grecs* (Paris, 1887), p. 6.

those communal elements which help to make it great. The critic may ask of modern artists in poetry if they possess *ces trois facultés essentielles* . . . *imagination, instinct créateur, et sentiment*; he may praise an exquisite passage in Homer which shows these qualities, like the parting of Hector and Andromache, because it suits our atomistic and sentimental conception; but when he comes to the historical estimate, to the contemporary verdict on epic success, above all, when it is a question of the beginning and growth of poetry at large, then the critic should pause before he undertakes to judge past by present. Two chances of grave error, to which I have already referred, beset him. He is tempted to carry the atomistic conception, the intellectual and sentimental appeal, of modern poetry, back into the border-land of epic, not to speak of the ballad; and he is prone to regard what he calls the informing principle of poetic style, imaginative power, as a constant quality and test of poetry itself, as a thing not subject to ordinary laws of evolution.

THE LAWS OF GRAVITATION.

ERNEST W. BROWN, SC. D., F. R. S.

More than fifty years ago P. A. Hansen completed tables by which the place of the moon at any time in the past or future could be calculated. These were published by the British government and have, with a few minor corrections, been used ever since in the construction of the Nautical almanacs and astronomical ephemerides of various countries. Their accuracy, considering the means at Hansen's disposal, is very remarkable. But as time goes on, observation gets more accurate and the theory

must keep pace. Careful comparisons between the results of Hansen, which were worked out almost entirely from theory, and those deduced from observation, showed that the moon does not quite come up to her calculated place. It seems then that there is something a little wrong with the theory. Are Hansen's calculations correct or are there causes affecting the motion of the moon which are unknown or which have not been sufficiently considered? Is the law of gravitation which Newton enunciated quite exact or must some small correction be made to it? These are questions which are being asked at the present time and one or two of which will probably be answered soon.

The first thing to undertake is the testing of Newton's law by calculating the motion of the moon on the assumption that the law is correct. When this has been done the rest is a comparatively simple matter. The obvious process would be to go through Hansen's calculations and see what corrections were necessary. But since Hansen's time better methods have been introduced, which not only will determine the motion more easily, but are capable of giving it with much greater accuracy. The task, however, in any case is an enormous one. The moon is chiefly affected by the attractions of the sun and earth, but nearly every body in the solar system has some effect on its motion which must be calculated and allowed for. The first portion of the work, and indeed by far the longest portion, is to find what part the sun and earth play in retaining the moon in its path. Hansen spent many years over this problem, devising a theory to solve it and then applying his methods. C. Delaunay was another of those

who attempted it with a fair measure of success and he spent twenty years over the calculations alone.

Some thirteen years ago the writer started on a fresh attempt with newer and better methods, the basal ideas of which were given in 1877 by an American astronomer, George William Hill. The work of calculation has been carried on, with interruptions, up to the present time and is now approaching its completion. Two ideas have been kept steadily in view. The first was to so arrange the calculations that there could be no doubt as to their accuracy. Even when calculations are performed three times, all errors will not be always eliminated and therefore numerous tests were devised as tests of accuracy. Almost every step has its test, and a sort of general balancing of the books takes place at wide intervals, which has the effect of checking large masses of figures. The second idea was the arrangement of the work in such a way that computers who did not necessarily understand the theory could be employed. Definite rules for their guidance are laid down and nearly all the work turned over to them is of the same kind—multiplications of series. In the present case, partly by the aid of a grant from the scientific fund of the Royal Society, Mr. Ira I. Sterner, an alumnus and former student at Haverford College, has done such calculations with remarkable accuracy which has steadily increased with the progress of the work, as the tests have shown. In this way, about one-third of the time necessary for the work has been saved. All calculations are of course checked as well as tested; it is never sufficient to trust to any one computation, however accurate the computer may be.

At the close of last year a stage near the end of the work was reached which permitted a searching test of accuracy to be made. Some years ago a theorem was discovered by the writer (*Proc. Lond. Math. Soc.* Vol. 28), which has somewhat the same relation to the calculations in the lunar theory which the construction of the Simplon tunnel (13 miles in length) has to the calculations of the engineer; if the workers, starting from both ends, meet exactly at the expected place, one may feel fairly sure that not only have the calculations been based on correct premises but also that the work has been correctly carried out according to the plans. The theorem furnished three tests of this nature. Starting from different points, intricate paths of calculations, sometimes crossing, at other times diverging widely, were followed until three separate places were reached at each of which the results arrived at by different routes should agree; in no one of the three cases did any difference occur (*Monthly Notices of the Royal Astronomical Society*, 1904).

If it be granted that the theory has been correctly worked out, how does the observed position of the moon agree with the calculated place? In other words, is the law of gravitation which was assumed as the basis of the theory correct? Tests for this are furnished by the motions of the perigee and node of the moon's orbit. The path of the moon is approximately an ellipse, but the attractions of the sun and planets cause the larger axis of this ellipse to slowly revolve in its own plane so that it makes a circuit once in about eighteen years. The plane of the ellipse is also in motion and the line of its intersection with the plane of the earth's orbit makes a revolution

once in about nine years. Both these periods are capable of being determined from theory and observation with very high accuracy. Hansen found a difference in the former case amounting to about 1-90,000 of the whole, and a difference in the latter case of 1-25,000 of the whole. The new calculations have very much reduced these amounts. Each of them has been shown to differ by less than 1-400,000 of the whole or by less than 1-4,000 of one per cent., and this is about the limit of accuracy of the observations at the present time (Monthly Notices R. A. S., May 1903). They mean that at the end of a century the observed and calculated places of the moon would differ by less than five seconds of arc, owing to this cause.

The motion of the perigee furnishes a searching test of the accuracy of Newton's law, which states that the attraction between two particles of matter varies inversely as the square of the distance between them. If it were not the exact square, but differed a little from it, the result would be a slight change in the period of the motion of the axis of the ellipse. The above differences show that the law is exact within one-fifty millionth of the whole; in other words the index cannot differ from 2 by so much as 1-25,000,000, so far as the moon is concerned.

The calculated motion of the axis of the ellipse which the planet Mercury describes round the sun does not quite agree with its observed place. It has been suggested as the most probable hypothesis to account for the difference that the Newtonian law may not be quite exact. But the change necessary to make theory and observation agree in the case of Mercury is about five times as great as the

greatest possible difference the case of the moon will allow. Thus some other cause for this anomaly in the motion of Mercury must be sought. Perhaps some change in the law of Newton may be possible which would explain the case of Mercury, while it would not sensibly affect the motion of the moon. Perhaps all the causes affecting the motion of the planet have not been properly accounted for. Or it may be that there are forces in the solar system of which we have as yet no knowledge. The question awaits a solution.

SOME NOTES ON TENNYSON'S 'DEATH OF OENONE'.*

WILFRED P. MUSTARD, PH. D.

Tennyson's poem 'The Death of Oenone' was dedicated to his friend Professor Jowett as

"a Grecian tale re-told,
Which, cast in later Grecian mould,
Quintus Calaber
Somewhat lazily handled of old,"

that is, as a story based upon the tenth book of Quintus Smyrnaeus.

This late Greek poet is usually called Quintus Smyrnaeus because of his statement (xii. 310) that he once lived at Smyrna; the name Quintus Calaber is due to the fact that his poems were discovered in Calabria, in 1450. He wrote a sequel to the Iliad in fourteen books, carrying it down to the capture of

*Extract from a volume of 'Classical Echoes in Tennyson,' now in the press.

Troy. The date of his life is uncertain; probably he lived in the fourth or fifth century of our era.

The point of the criticism "somewhat lazily handled" is not very obvious; the judgment of Sainte-Beuve seems fairer, "*L'épisode d'Oenone s'élève et se détache par une beauté de premier ordre; cette peinture vaudrait seule à l'auteur un rang incontestable parmi les vrais poètes.*" Moreover, the Greek poem has supplied, or suggested, almost all the details of the English story,¹ a fact which is worth remembering in view of Tennyson's own opinion that his new 'Oenone' was "even more strictly classical in form and language than the 'old'" (Memoir, ii. 386).

The wounding of Paris by a poisoned arrow is recorded by Quintus, x, 240. Knowing that he might be healed by Oenone's hands (261), he came to her, all unwilling (264), and fell at her feet (272). Then we have his appeal for pity (284 ff.):

"O honored wife, hate me not in my distress because I once left thee widowed in thy halls, against my will. It was Fate that no man avoids that took me to Helen; would that I had lost my life in thine arms before sharing her bed. But come, by the gods who dwell in heaven, by thy bed and thy wedded love, entertain a kindly spirit and turn away my sore distress,

¹The author of the Memoir is wrong in calling 'The Death of Oenone' one of "those classical subjects from mythology and legend, which had been before but imperfectly treated, or of which the stories were slight" (ii. 13). In Sir Alfred Lyall's book on Tennyson (1902) we are told that "the story is taken from a short passage in a late Greek writer (Apollodorus)."

placing upon my deadly wound drugs which will save me, which are fated to put away grief from my soul, if thou wilt have it so; for it rests with thy heart, whether thou thinkest to save me from death of evil name or no. Nay, show pity straightway, and heal the force of the arrows of swift death, while my strength and my limbs are still in their bloom; and though thou rememberest thy deadly jealousy, yet leave me not to die beneath the hand of a cruel destiny, fallen before thy feet. Thou wilt be doing what is displeasing to the Litai,¹ who are themselves daughters of Zeus the loud thunderer, and in their anger at the relentless set on to pursue them the woful Erinnys and her wrath. Nay, do thou, lady, quickly ward off my evil fate, even if I did do some sin in my folly."

In Tennyson's version the wounded warrior, "struck by a poison'd arrow in the fight," makes his painful way up the mountain-side, and moans

"Oenone, *my* Oenone, while we dwelt
 Together in this valley—happy then—
 Too happy had I died within thine arms,
 Before the feud of Gods had marr'd our peace,
 And sunder'd each from each. I am dying now
 Pierced by a poison'd dart. Save me. Thou knowest,
 Taught by some God, whatever herb or balm
 May clear the blood from poison ²
 My life and death are in thy hand. The Gods
 Avenge on stony hearts a fruitless prayer
 For pity. Let me owe my life to thee.
 I wrought thee bitter wrong, but thou forgive,
 Forget it. Man is but the slave of Fate.
 Oenone, by thy love which once was mine,
 Help, heal me."

¹Compare Homer, *Il.* ix. 510.

²Cp. Ovid, *Her.* v. 147-8.

In the Greek story Paris is repulsed with scorn. He turns back toward the city, but dies on the mountain (362). "And round about him the Nymphs wailed aloud, for they still remembered in their hearts the words that of old he spake to their company, even from childhood. And with them the swift herdsmen made moan, grieving in their hearts," etc. (364 ff.).

In the English version his appeal is refused, and he turns away and disappears,

"But, ere the mountain rolls into the plain,
Fell headlong dead."¹

The shepherds find his body,

"And then, remembering the gay playmate rear'd
Among them, and forgetful of the man,
Whose crime had half unpeopled Ilion, these
All that day long labour'd, hewing the pines,
And built their shepherd-prince a funeral pile ;
And, while the star of eve was drawing light
From the dead sun, kindled the pyre, and all
Stood round it, hush'd, or calling on his name."

The building of the funeral pile for "their shepherd-prince" is recorded a hundred lines later in the

¹Mr. Stopford Brooke has accused Tennyson of changing the ancient story—changing it for the worse: "It is too improbable that Paris should walk up Ida to call for Oenone, considering where and how he was wounded; or stagger down the hill from her" (Tennyson: *His Art and Relation to Modern Life*, p. 142). And he protests against the "husband and wife and widow business" of the English poem, because, he insists, the union of Paris and Oenone was not a marriage nor anything that resembled it. But in both of these points Tennyson has merely followed his Greek model. Compare A. Lang, 'Helen of Troy,' v. 68. Sir Alfred Lyall (1902) sees in Tennyson's treatment of Paris a "propensity to enforce grave moral lessons;" but it is hardly necessary to insist upon this in "a Grecian tale re-told."

Greek poem (460-3): "for the shepherds assembled from various parts of the mountain, and made a great pile of wood, doing their last sad service for him who was at once their comrade and their prince, wailing exceedingly loud as they stood around."

In the Greek poem Oenone rushes down at nightfall from her mountain dwelling, no longer fearing the shaggy beasts that cross her path (450). She comes to the pyre on which the body of Paris is laid, "and the mighty fire still enfolded it" (460). "But she, when she saw him plainly, uttered no wail over him, for all her grief; but muffling up her comely face with her mantle she sprang quickly upon the pyre, and stirred great groaning among them, and was burned clasping her husband."¹

In Tennyson's version she paces slowly down in the darkness:

"She waked a bird of prey that scream'd and past ;
 She roused a snake that hissing writhed away ;
 A panther sprang across her path, she heard
 The shriek of some lost life among the pines,
 But when she gain'd the broader vale, and saw
 The ring of faces redden'd by the flames
 Enfolding that dark body which had lain
 Of old in her embrace, paused
 And muffling up her comely head, and crying
 ' Husband ! ' she leapt upon the funeral pile,
 And mixt herself with *him* and past in fire."

¹Professor Arthur Palmer overlooked this passage in his note on Ovid, *Her.* v. 156: "He (sc. Tennyson), however, defrauds Evadne of her unique place in mythology by making Oenone leap on to the burning pyre of Paris." Quintus himself mentions the death of Evadne a few lines later (x. 481).

TREMATODE PARASITES OF FROGS.*

HENRY S. PRATT, PH. D.

Animals differing very much in structure, habits, and origin often enter into intimate and more or less permanent relations with one another. The object of the connection may be the mutual advantage, in which case we speak of it as commensalism or symbiosis, or it may be the advantage of one side only of the union when it becomes parasitism. It is, however, always the incessant struggle of animals for food and for a place in the world that is the cause of it.

Often an association of this kind is a merely casual one which exists for a while and is then given up. For instance, on the plains of Africa ostriches and antelopes will often be seen in the same flock, running about with one another for days at a time. The object is their better protection for the same enemies prey upon both. The sharp eyes of the ostrich perched high up in the air and the acute sense of smell of the antelope supplement each other, and it has been observed that if either the ostriches or the antelopes become alarmed and begin to run the others at once run with them, without apparently knowing what the cause of the trouble is.

Unions like this are sometimes permanent. Certain hermit-crabs live in close companionship with sea-anemones. The latter animals are attached to the outside of the snail-shell which the crab is using for a house, and so necessary are the animals to each other that when the crab

*Abstract of a paper read before the Society of American Zoologists at their annual meeting December 29, 1903.

changes its snail-shell for a larger one it detaches its anemone from the old shell and places it on the new one.

Parasitism is very common among the lower animals, there being hardly a single large group some representatives of which do not lead parasitic lives. This is because a parasite, of all animals, finds the conditions of existence the simplest and the easiest. Food and shelter, which all animals spend their lives in struggling for, come to it with the least effort. It follows, consequently, that all the vertebrates, which are the largest and highest animals, are more or less infested with parasites. Man himself is the host of more than eighty species.

A study of the trematode parasites of frogs has brought out some interesting facts in the evolution of new species of these worms. About twenty species of trematodes have been discovered in American frogs, living in the various open spaces and organs of the body. Of these more than half occur in two organs, six species being found in the lungs and five in the bladder. Those occurring in the lungs are *Ostiolum formosum*, *Haematoloechus longiplexus*, *H. breviplexus*, *H. varioplexus*, *H. similiplexus*, and *H. medioplexus*. These worms are all very closely related to one another and also to *H. variegatus*, a trematode which lives in the lungs of European frogs, and there can be little doubt that all seven species, the six American and the one European, are descended from a common ancestor.

The trematodes which occur in the bladder of American frogs are *Gorgodera translucida*, *G. opaca*, *G. simplex*, *G. attenuata*, and *G. amplicava*. These worms all belong to the same genus and are consequently closely al-

lied; they are also near relatives of *G. cygnoides* which lives in the bladder of European frogs, and all have undoubtedly had a common ancestor.

Why is it now that the ancestral forms of these worms which migrated into the lungs and bladder of the American frog should have given rise to so many new species, while those which originally infested the lungs and the bladder of European frogs should remain stationary? Questions like this can never be answered positively because we cannot reproduce, even in the imagination, the conditions which have surrounded the animals. We can only assert that these environmental conditions must have been much more varied in the case of the American than the European worms.

A trematode's life may be divided into two periods, the larval and the adult, which are very distinct from each other, and in both of which the American species in question were probably surrounded by a richer environment than their European cousins. There are many more kinds of frogs in this country than in Europe and they vary among themselves much more than do those of Europe.

The larval trematode does not, however, live in the frog, but only the adult. The eggs of the parasite pass out of the frog's body and are hatched in the water or the wet meadow in which the frog lives. The young worm at once seeks its host, but it looks for a snail and not a frog. It crawls into the breathing pore of the snail and finally works its way into its liver. Here it lives until a frog eats the snail when the parasite at once works its way into the particular organ of the frog in which it is destined

to pass the remainder of its life, and quickly becomes adult.

It is thus very evident that if fresh-water snails are abundant trematodes will have a much better chance to develop and multiply than if these snails are scarce. America possesses an extraordinary abundance and variety of them; in Europe the number is relatively small.

Thus in both their adult and larval periods the trematodes infesting frogs are surrounded at the present time by more varied conditions of existence on this continent than in the old world. This has probably been true for an indefinite number of generations and has resulted in the evolution of a much larger number of species here than in Europe.

THE ESSENTIAL DIFFERENCE BETWEEN A
CHANSON DE GESTE AND A *ROMAN*
D'AVENTURE.*

WILLIAM WISTAR COMFORT, PH. D.

The national epic poems of France offer a vast body of literature in which we watch the development of French civilization between the eleventh and the fourteenth century. These long poems, written by unknown hands, reflect all the literary, political, social and religious influences which were tending to convert the Middle Age into a state of preparation for the Renaissance.

The poems which represent the primitive spirit of the national epic are concerned almost exclusively with wars

*Abstract of a paper read before the Modern Language Association at Ann Arbor, December 29th, 1903.

between the French and the Saracens, or else between the French king and certain rebellious vassals. These poems are simple, virile, rude in workmanship, and straightforward in purpose. Their object is to tell of the heroes of old who died in defending Christendom against the Infidels, or in protecting their feudal strongholds against the grasping policy of an ambitious king.

Upon these primitive poems there came to bear, however, in the twelfth century, a number of outside influences which profoundly altered their rugged character. Religious enthusiasm with the Crusades was at its height; civil war was on the decrease, and with the establishment of better order came a more refined domestic life; woman was just becoming, for the first time, the centre about which the social fabric was to revolve; finally, a new style of fiction was coming into vogue—the Breton *romans d'aventure*, popularized in France by the versions of Chrétien de Troyes about 1170.

It is only with this last literary influence that we are concerned. Our object is to correct, if possible, a current misapprehension in regard to the influence of the Breton *matière* upon the *matière de France*. Some would have us believe that the new style in narrative poetry, with its imaginative qualities and its courtly virtues, personified in the knights of Arthur's court, completely overwhelmed and obscured the vigorous old fighting epic—a *genre* which had been struck white hot from the clash of Teutonic Franks and Southern Infidels. Mr. Alfred Nutt, who speaks with authority of the Arthurian romances, at least, is wrong when he says: "The later works of the "Charlemagne cycle are in detail, tone and spirit, often as

"*Arthurian* as any purely Breton romance." (*Celtic and Mediaeval Romance*, page 14.) A brief summary of our argument, as applied to the different type-personages of the national epic, will perhaps show how they resisted innovation, how the essentials never changed, however profoundly surface features were altered by the newly adopted *matière de Bretagne*.

In the first place, the poets themselves are perfectly aware of the difference in spirit between the two *matières*. As though fearing lest any confusion might exist in the mind of the audience, each poet himself takes pains to explain in which domain his action is to pass, where his story is to take us. Almost any poem we may take up of the Carolingian or of the Arthurian cycle at random will indicate this nice feeling of distinction. (Cf. *Gaydon*, p. 1; *Hugues Capet*, p. 3; *Yvain* (ed. Förster) vv. 1-4; *Erec et Enide* (ed. Förster) vv. 27-34.)

As for the kings, there is no confusion between the type of French king and the type of Breton king. Arthur never crosses the path of either Charles, Pepin or Louis. The French king is the political head of a definite Christian State which he must maintain against the onslaughts of God's enemies; Arthur is the happy ruler of a vast commonwealth of knights and ladies to whom he must give the example of such courtesy and elegant chivalry as was craved, if it was not realized, by the twelfth century in France. There was room for the two types of king in contemporary literature, and even in the obscurity of the background they do not trench upon one another.

The hero of the old epic poems was certainly deeply affected by the Breton *chevalier*. But though we may see our once solemn, pre-occupied warriors step aside in

the later poems to indulge in a romantic adventure, to win the hand of a Saracen princess (cf. Guillaume d'Orange in *La Prise d'Orange*), or to give place to the play of their finer feelings, yet the most transformed among them falls far short of being a model Arthurian knight. Less courteous and less elegant, we should say the peers of Charlemagne were truer to their purposes, more uncompromising, more rugged. The Knights of the Round Table, on the other hand, though individuals, are parts of an organization. Their virtues and their vices both have their origin in their association with other equally refined knights and ladies. Convention reigns supreme in this ideal society.

The traitors, or unfaithful vassals, are essentially a creation of the feudal epic, and, with the exception of the individual Mordred, seem to have no counterpart in the Breton poems. A study of French feudal society under the early Capetians, shows that the "traitors" were an indispensable accompaniment of this society. The "traitor," as an active personage, is foreign to the romances, and is a conventional and persistent type of an historical original, presented only in the *chansons de geste*.

The Breton poems form collectively a vast body of woman's literature. Thanks largely to their influence, woman was introduced in the twelfth century into a leading rôle in the late *chansons de geste*. The new emphasis of the love passion, which marks the vogue of the Breton material all over Europe, brings woman into the foreground of the narrative. Even the grizzly warriors of Charlemagne's host are no longer totally insensible to woman's charms. But it must be noted that woman never becomes the sole aim of a hero's endeavor. However

charming and seductive the woman may be, she does not succeed in carrying our Christian hero off his feet. Far from taking a lady, in Arthurian fashion, whom he may serve as her accepted knight, he more prosaically takes her in good time "a mollier et a per." This difference in the attitudes of the sexes is constant throughout, and permits us to state that the *matière de France* differs from the *matière de Bretagne* in not being primarily concerned with the relations of men and women.

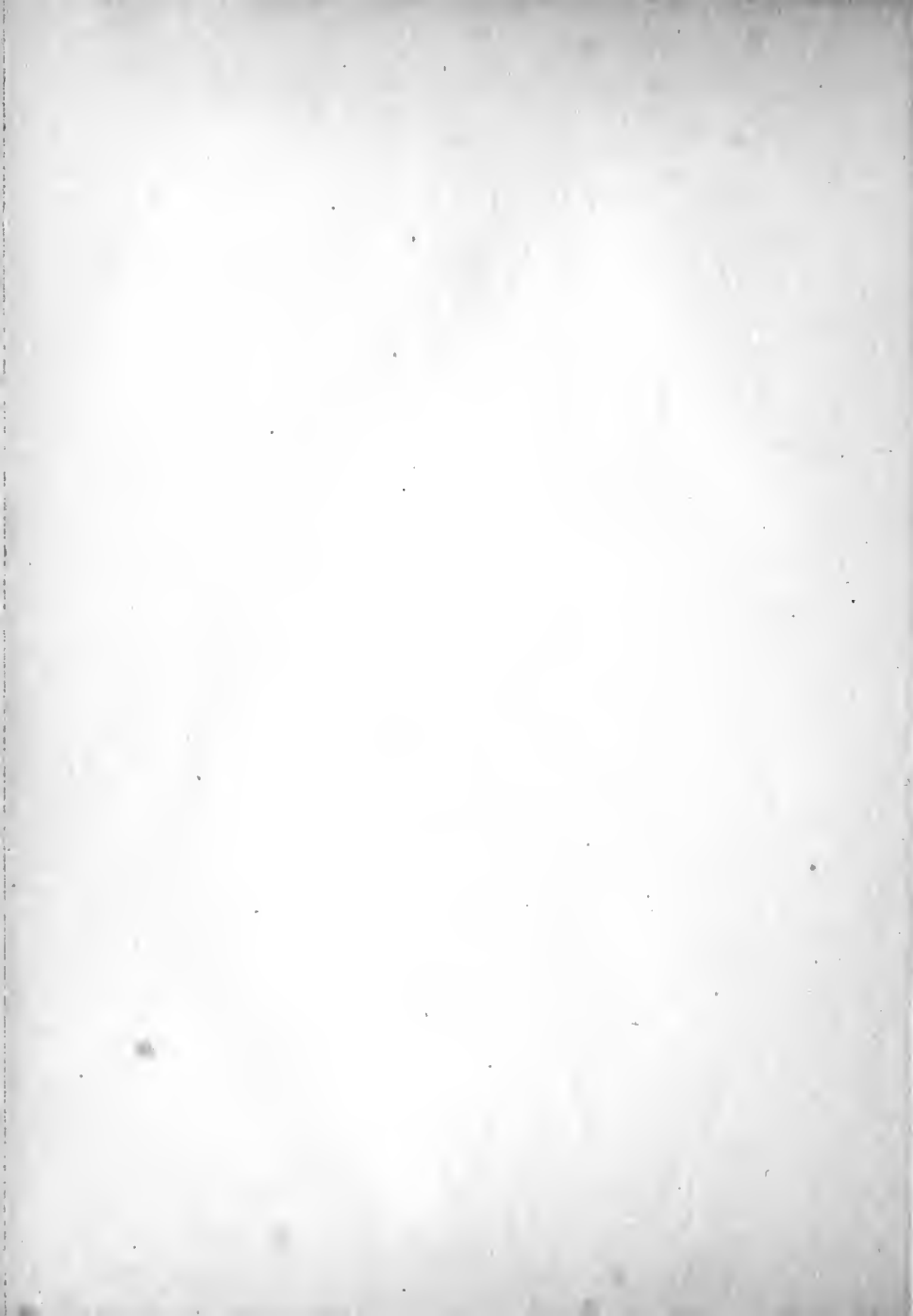
From the appearance of the *bourgeois* and *vilain* in the later epic poems nothing can be argued in favor of the Breton influence. The thirteenth century awoke the *tiers état* to social consciousness, and the humble hero in a variety of guises straightway appears as a minor character in the epic and in the romances alike.

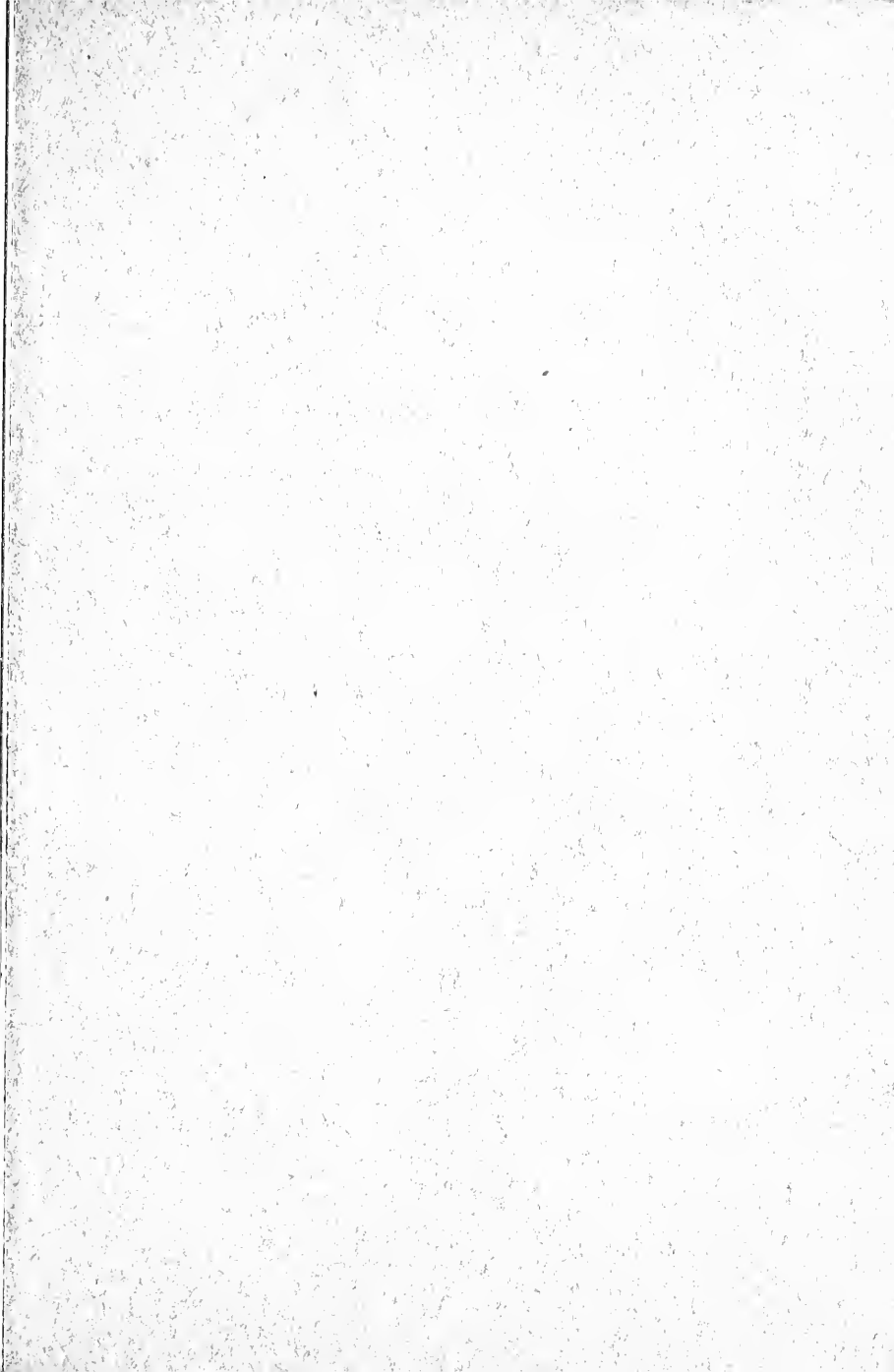
Finally, the Saracens belong essentially to the epic stock in trade. In the early poems they are a necessary feature of the religious epic. So they remain, indeed, throughout the whole period of popularity of the *chansons de geste*. But in the later poems they are something more than members of a religious host hostile to the French. They furnish now the marvelous note, now the romantic; and they were thus, especially the Saracen women, influenced by the Breton poems. But they were so bound up in the central motive of the French epic that it is idle to seek any other than historical reasons for their presence there.

Although the influence of the Breton romantic spirit is felt everywhere in the later *chansons de geste*, yet nowhere is the fusion between the characters complete. No *chanson de geste* could be mistaken by an expert for a

roman d'aventure. When the epic *genre* had survived its usefulness, it perished utterly, never to rise again. Whereas the Breton cycle, being more subjective and ideal, has been revived with a fresh message by an English poet in our own day.







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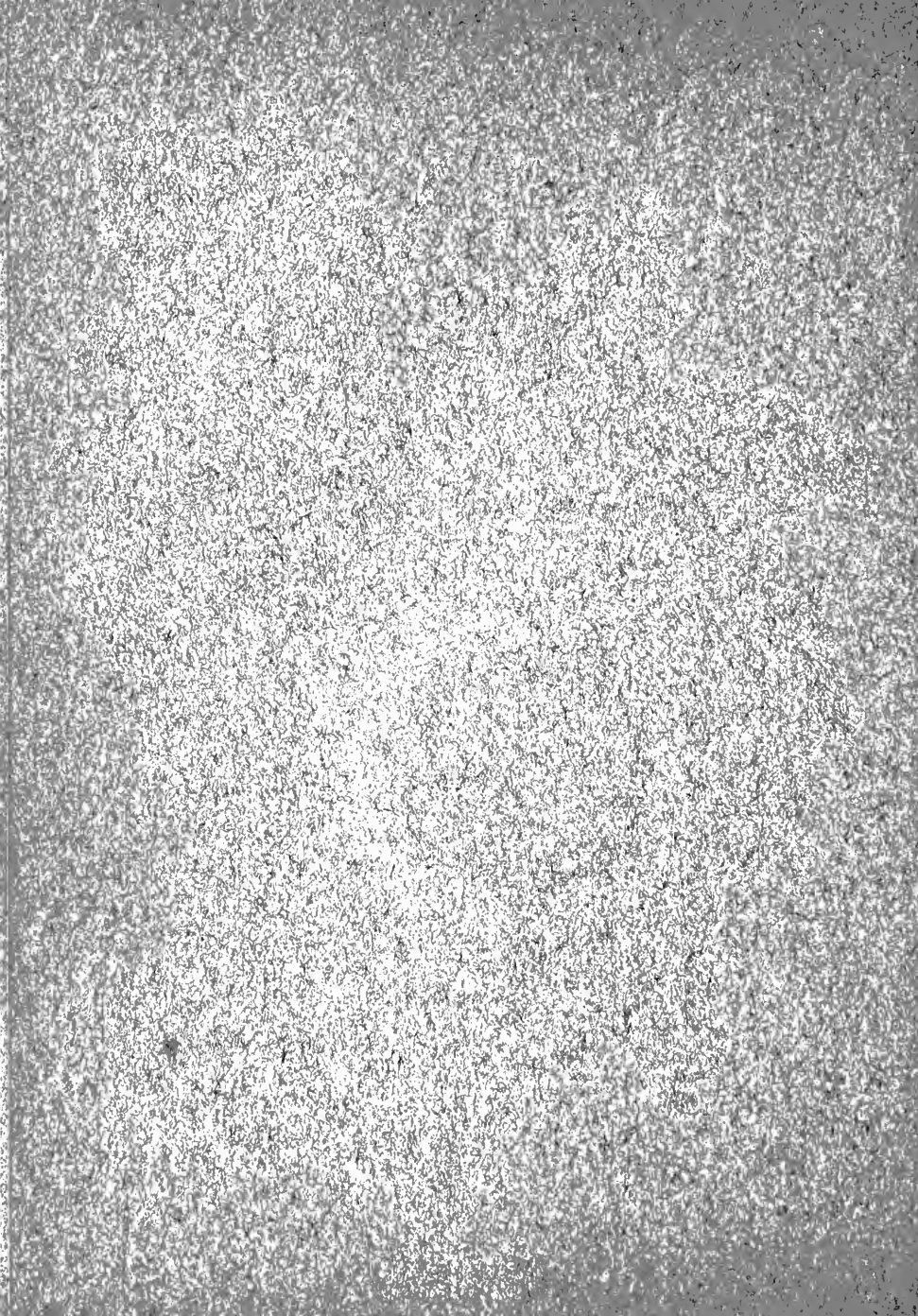
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1903-1904

HAVERFORD COLLEGE ATHLETICS



Edited in the Interest of
Haverford Athletics by

JAMES A. BABBITT, M. D.

Director of the Physical Department

THAT this has been an unusually prosperous year in athletics will be generally conceded by alumnus and student.

Beginning with a remarkably spirited foot ball season, and followed by successful dual competition with Lehigh University in the gymnasium and Rutgers on the track, the crowning laurel came with the winning of the Intercollegiate cup in cricket, a fitting "bon voyage" to the team for its trip abroad.

It is with genuine pleasure that this simple record of the year is submitted to Haverfordian friends.

JAMES A. BABBITT.

Haverford,

June 1, 1904.



Football

—SEASON—



H. N. THORN

Football Organization, 1903-4

General Athletic Association

C. C. MORRIS, '04—*President*

A. H. HOPKINS, '05—*Vice-President*

J. D. PHILLIPS, '06—*Secretary*

C. J. RHOADS, '93—*Treasurer*

Foot Ball Department

B. LESTER, '04—*Chairman*

J. R. THOMAS, '04—*Vice-Chairman*

C. N. SHELTON, '04—*Manager*

E. C. PEIRCE, '05—*Assistant Manager*

H. N. THORN, '04—*Captain*

J. H. SCATTERGOOD, '96—*Coach*

Foot Ball Team (Swarthmore Came)H. N. THORN, '04—*Captain and Quarter Back*L. LINDLEY, '04—*Right End*R. P. LOWRY—*Substitute Right End*A. H. HOPKINS, '05—*Right Tackle*R. L. PEARSON, '05—*Right End*A. G. PRIESTMAN, '05—*Left Guard*H. W. JONES, '05—*Right Half Back*J. L. SCULL, '05—*Left End*T. K. BROWN, JR., '06—*Centre Rush*A. T. LOWRY, '06—*Full Back*W. H. HAINES, '07—*Left Half Back*G. H. WOOD, '07—*Right Guard***Games Played, with Scores**

Haverford	0	University of Pennsylvania	58
Haverford	22	Philadelphia Dental	0
Haverford	0	Franklin and Marshall	11
Haverford	18	Rutgers	6
Haverford	0	Ursinus	12
Haverford	6	N. Y. University	0
Haverford	37	Delaware	0
Haverford	6	Swarthmore	16
	<hr/>		<hr/>
	89		103

Individual Points*Touchdowns**Goals*

H. W. Jones	3	A. T. Lowry	7
A. T. Lowry	3	H. N. Thorn	4
H. N. Thorn	2		
A. H. Hopkins	2		
A. G. Priestman	2		
A. K. Smiley	1		
W. H. Haines, '07	1		

Field Goals

A. T. Lowry 1

Statistics of Foot Ball Men

	<i>Weight</i>	<i>Height</i>	<i>Age</i>
THORN	150	5 ft. 7 ½ in.	22
LINDLEY	178	5 ft. 10 ½ in.	27
LOWRY, R. P.	135	5 ft. 6 ½ in.	22
HOPKINS	166	5 ft. 11 ½ in.	21
PEARSON	148	5 ft. 10 in.	20
PRIESTMAN	159	5 ft. 11 ¾ in.	19
JONES	171	5 ft. 10 in.	24
SCULL	160	5 ft. 9 in.	21
T. K. BROWN, JR.	163	5 ft. 10 ½ in.	18
LOWRY, A. T.	180	5 ft. 9 ½ in.	18
HAINES, W. H., '07	152	5 ft. 6 ½ in.	20
WOOD.	173	5 ft. 11 in.	20
HAINES, W. H. JR., '06.	132	5 ft. 7 in.	18
BROWN, A.	153	5 ft. 9 in.	19
ESHLEMAN	140	5 ft. 7 ½ in.	18
SMILEY	160	5 ft. 10 in.	20
REID	135	5 ft. 8 in.	17

Foot Ball Emblems

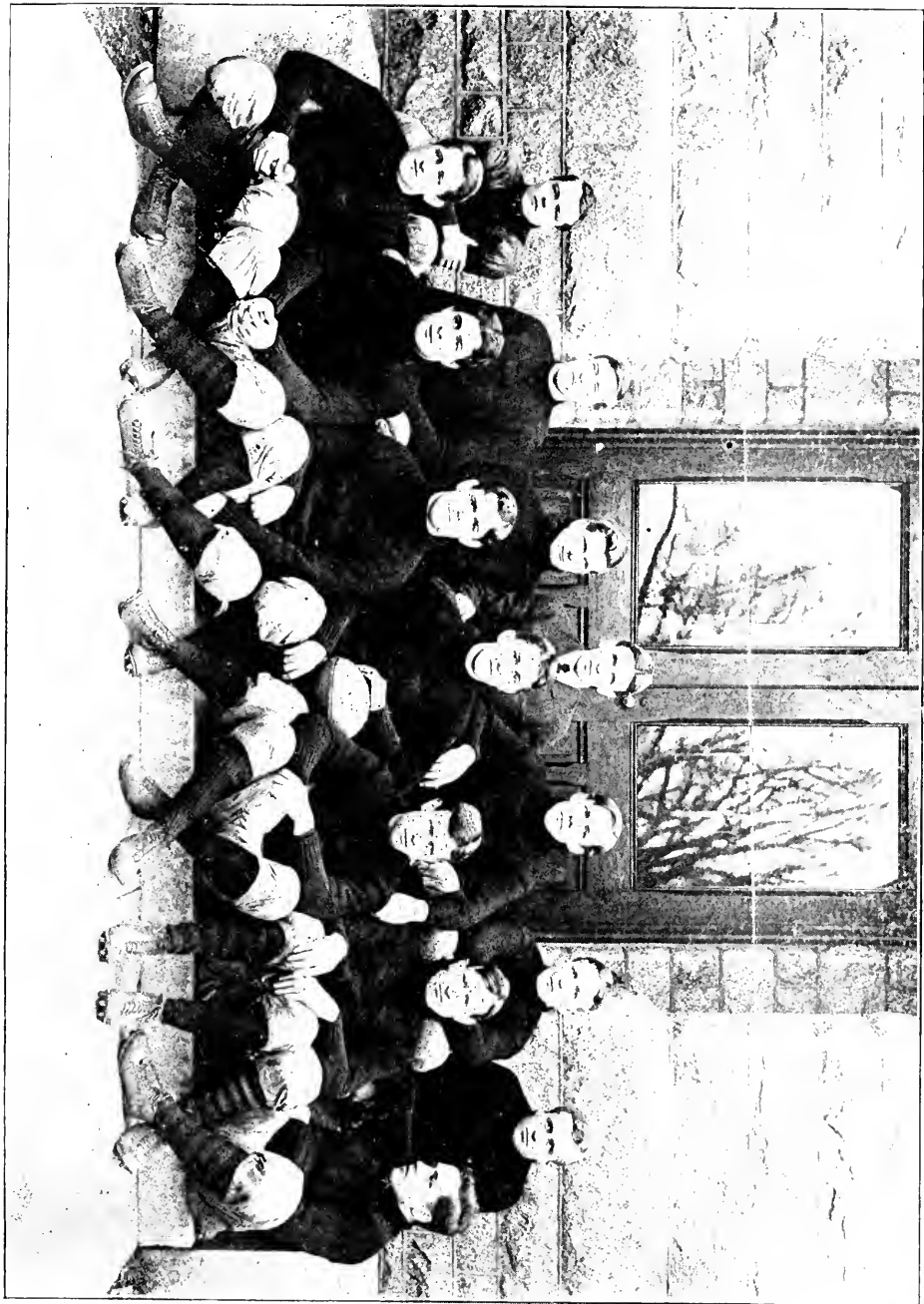
Foot Ball and Scrub H's were awarded to the following :

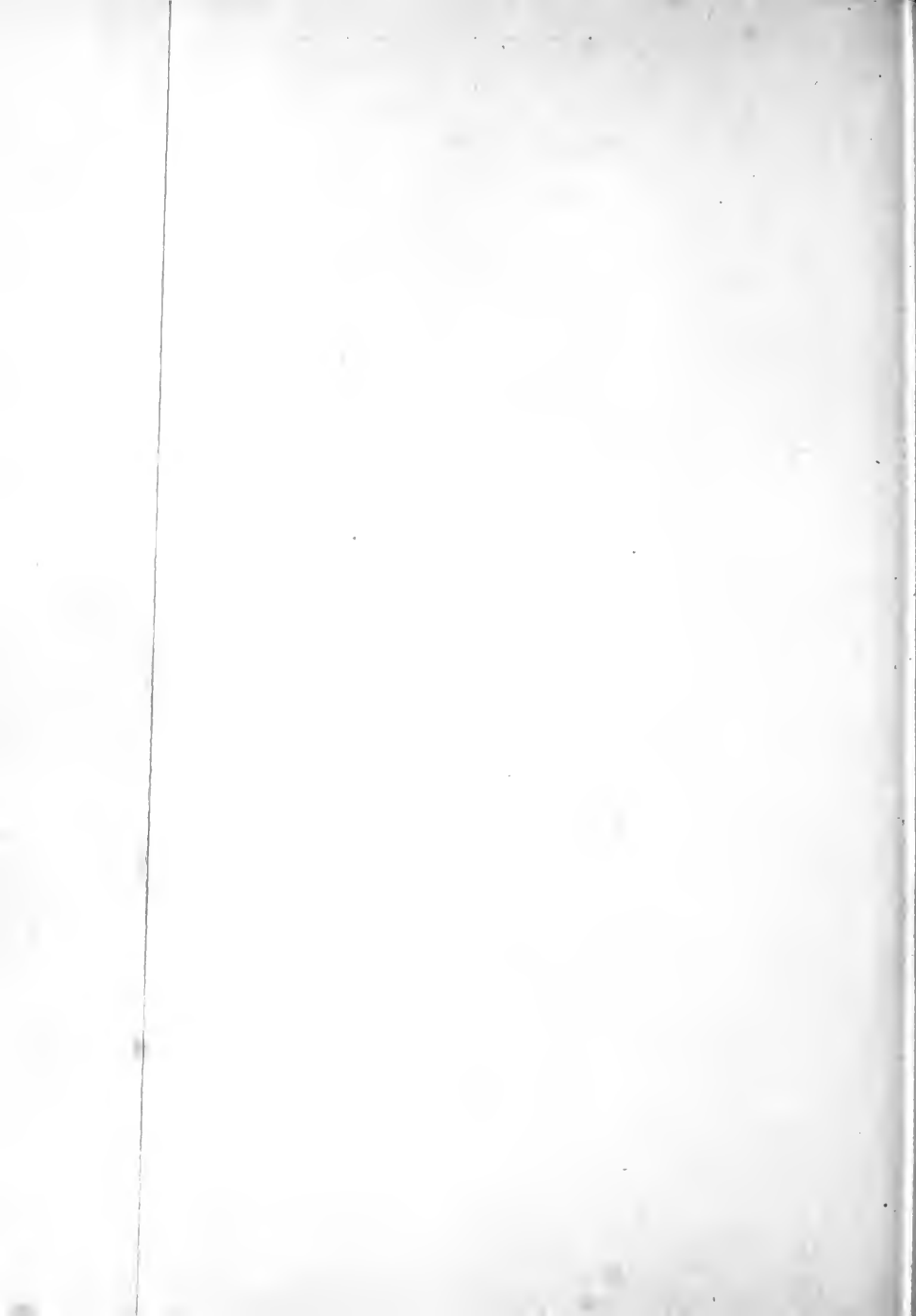
Foot Ball H's

H. N. THORN, '04
 L. LINDLEY, '04
 H. W. JONES, '05
 A. T. LOWRY, '06
 T. K. BROWN, JR., '06
 G. H. WOOD, '07
 W. H. HAINES, '07
 J. C. BIRDSALL, '07
 A. H. HOPKINS, '05
 R. L. PEARSON, '05
 A. G. PRIESTMAN, '05

Scrub H's

H. M. SCHABACKER, '04
 A. W. KRATZ, '04
 H. G. COX, '05
 H. W. DOUGHTON, '06
 J. P. MAGILL, '07





The Foot Ball of 1903

Can the foot ball season of 1903 be called a satisfactory one? This depends largely upon the critic's view point, since by many the question is determined by the result of the final game. This year, however, another element must be taken into consideration and this same element will be an important factor for the next few years. The Athletic Committee has deemed it advisable to establish a system of graduate coaching as the most practicable and consistent course to be pursued by Haverford College.

Such a system cannot spring up in a day, but must be gradually developed and each year come a step nearer to the ideal plan. For two years this scheme has been in operation and it can be safely said the development in the second year has been a marked one, and the season, from this philosophical standpoint, a successful one.

H. N. T.

Record of Swarthmore-Haverford Games

HAVERFORD			SWARTHMORE		
*1879	1 goal	} 36		13 safeties	} 2
	1 touchdown				
	1 safety				
*1883 (spring)	2 safety touchdowns	} 16	6 safeties	} 8	
	1 goal		1 touchdown		
1883 (fall)	9 12		1894	0	32
1884	10 6		1895	24	0
1885	40 10		1896	42	6
1887	16 40		1897	8	6
1888	6 0		1898	12	0
1889	10 4		1899	12	34
1890	14 30		1900	10	17
1891	0 62		1901	6	6
1892	6 22		1902	0	22
1893	0 50		1903	6	16
Totals				231	375

*These games were played under a different system of scoring. The managers do not count them in the present series.

Regulations for the Wearing of College Colors and H

It Seems Advantageous to Publish in the Annual, the Rules as to the Wearing of the College Emblems

FIRST. All committees for awarding college emblems shall be held responsible to the College Association.

SECOND. The cricket colors shall consist of the cricket sweater, the scarlet and black striped blazer and cap, and the scarlet and black sash. The cricket sweater shall be white, with low neck and a lower waistband of scarlet and black, one and one-half ($1\frac{1}{2}$) inches wide, and shall have on the breast a scarlet Cricket H. Cricket H shall be a block letter H four and a half ($4\frac{1}{2}$) inches across the top and five (5) inches in height.

The cricket colors shall be worn by the members of the first eleven of any year, when such members are formally given their colors by the Ground Committee of the Cricket Club.

THIRD. The foot-ball colors shall be awarded after the last game of each season by the Captain and Manager of the Foot-Ball Team and the President of the Foot-Ball Association. These three men shall select the first fourteen players, including the captain, who shall be entitled to wear the foot-ball H.

The foot-ball sweater shall be red, with black neck, wristlets, and waistband. The foot-ball H shall be a black block letter H six (6) inches across the top and seven and a half ($7\frac{1}{2}$) inches in height. The wristlets and waistband shall each be three and one-half ($3\frac{1}{2}$) inches in width.

Men who are not entitled to wear the foot-ball sweaters shall not appear with the foot-ball H on any sweater, nor shall they wear the scarlet and black striped stockings or jerseys, except upon the foot-ball field.

FOURTH. The track emblems shall be awarded by the Ground Committee of the Athletic Association and shall be worn only by men winning a point in an inter-collegiate scratch contest, except in dual meets, when the winner of first place only shall receive the track H.

The track uniform shall consist of a scarlet and black striped sleeveless jersey; white running trousers, with red and black ribbon stripes down the sides, and the track sweater, which shall be a plain cardinal red sweater with the track H on the breast. The track H shall be five and a half ($5\frac{1}{2}$) inches in width by six and a half ($6\frac{1}{2}$) inches in height, and be a black block letter H.

FIFTH. The hockey colors shall be awarded by the captain and manager of the Hockey Team and the President of the Hockey Association. These three men shall select the first eight players, including the captain, who shall be entitled to wear the H. C.

The hockey jersey shall be as follows: A black body with striped sleeves, a scarlet neck and a scarlet waistband. The stripes, one (1) inch in width, shall be alternate scarlet and black. The H. C. shall be scarlet block letters four and one-fourth ($4\frac{1}{4}$) inches by two and one-half ($2\frac{1}{2}$) inches.

SIXTH. The gymnasium sweater shall be awarded by the captain and manager of the Gymnasium Team, who shall determine the number of men to receive these emblems. The gymnasium uniform shall consist of a jersey, a sweater, black tights, black trunks and white gymnasium shoes. The gymnasium jerseys shall be scarlet with short sleeves. The gymnasium emblem shall be a monogram consisting of a black H ($4\frac{1}{2}$ inches in height and $4\frac{1}{2}$ inches width), a black C ($3\frac{1}{4}$ inches long and $2\frac{1}{4}$ inches wide) and a black G of the same dimensions. The C shall be placed upon the upper right hand section of the H, likewise the G upon the lower left hand section. The design shall conform to that of previous years. The gymnasium sweater shall be black throughout. The emblem shall conform with that of the gymnasium jersey. The letters shall be scarlet. The H shall be six (6) inches by five (5) inches. The C and G shall each be four (4) inches high by four and one-half ($4\frac{1}{2}$) inches long.

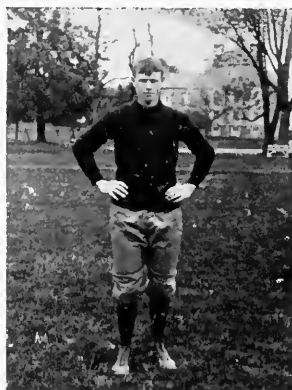
SEVENTH. The scrub foot-ball sweater shall be awarded at the end of each foot-ball season to those men who in the opinion of the 'Varsity captain, the scrub captain and the 'Varsity manager, have done the best work throughout the season. The number of sweaters shall not exceed eleven.

The sweater shall be of a black body of striped alternate scarlet and black neck and wristlets. The stripes shall be one-half ($\frac{2}{3}$) inch in width and the wristlets four (4) inches in width. The monogram shall consist of a scarlet H seven (7) inches in height by six (6) inches in width. A scarlet Arabic numeral "2" two (2) inches by one and one-half ($1\frac{1}{2}$) inches and a scarlet Roman numeral eleven (XI) of the same relative dimensions. The Arabic numeral "two" shall be placed within the H above the cross-bar and the Roman numeral "eleven" below the cross-bar.

EIGHTH. The managers of the various teams may wear the sweaters and jerseys of their respective teams without the emblems.

NINTH. No person shall be entitled to wear any of the emblems, uniforms, or parts of uniforms, above mentioned, until that person shall have been authorized to do so by the committees having charge of the awarding of the same.

(By a recent ruling, a gymnasium H may be awarded to two men on the Gymnasium Team. This H to be similar to the Gymnasium Monogram.)



A. H. HOPKINS

THE TENNIS TOURNAMENT

Preliminary	First Round	Second Round	Third Round	Semi-finals	Finals
	Hilles, '04.....	Hilles			
	Fisher, '05.....	6-1, 6-4	Hilles		
	Brinton, '04.....	Priestman.....	6-4, 8-6		
	Priestman, '05	6-4, 4-6, 6-4			
	Doughten, '05.....	Doughten.....			
	Cookman, '05.....	6-4, 6-2	Doughten.....		
	Monroe, '06.....	Bainbridge.....	6-0, 6-3		
	Bainbridge, '05.....	6-3, 7-5			
	Smiley, '05.....	Megear			
Megear, '04	Megear	(default)			
Dickson, '05.....	3-3, 6-2		Evans		
Cox, '05	Evans		(default)		
Evans, '07.....	6-0, 6-0	Evans			
Shoemaker, '07.....	Shoemaker.....	6-2, 6-3			
J. C. March, '07	6-3, 7-5				
Kimber, '04.....	Burgess.....				
Burgess, '04	6-0, 6-3	Burgess.....			
Windle, '07.....	(default)	4-6, 6-2, 6-3			
Dr. Reid	Spaeth		Spaeth		
Spaeth, '05.....	Spaeth		6-0, 6-0		
Longstreth, P. G.	4-5, 6-0, 6-2	Spaeth			
Taylor, '05.....	Shortlidge	6-4, 7-5			
Shortlidge, '05.....	6-3, 6-0				
Gummere, '07.....	6-4, 0-6, 6-2	Gummere			
Ritts, '05.....	Wills	8-5, 6-4			
Wills, '04	6-1, 6-4				
F. Thomas, '07.....	Godley		Godley		
Godley, '07	6-0, 6-2	Godley.....	6-3, 8-6		
J. C. Thomas, '07.....	Fritz	6-2, 6-1			
Fritz, '07	6-4, 6-1				
Maloney, '05.....	Fales				
Peirce, '05.....	6-0, 6-3	Fales			
Fales, '06.....	(default)	6-1 6-2			
Smyth, '05.....	Hopper		Fales		
Dr. Hancock	6-1, 6-2	Brown	6-4, 6-3		
Cary, '05.....	6-2, 6-2				
Hopper, '05.....	Lee, '05.....	Lee			
P. Pleasants, Jr., '06	Sheldon, '04.....	(default)	Lee		
P. Brown, '07.....	Scott, '05.....	(default)	6-0, 6-2		
	Stokes, '04.....				
	Kratz, '04.....	Kratz			
	Clausen, '07.....	6-3, 7-9, 6 0	Andrew		
	Tunney, '05.....	Andrew	6-2, 3-5 6-2		
	Andrew, '04.....	6-2, 6-1			

Winner

Fales
7-5, 6-3, 6-2Fales
3-6, 7-5, 8-6Doughten
6-4, 8-6Spaeth
10-8, 6-3Spaeth
6-4, 6-1Fales
6-3, 1-6, 6-1Lee
6-0, 6-1



E. C. TATNALL

Sophomore-Freshman Sports

October 21st, 1903

100 YARDS DASH—Won by Brown, '06; second, P. W. Brown, '07; third, Cary, '06. Time, 11 seconds.

HALF MILE RUN—Won by E. C. Tatnall, '07; second, Miller, '06, third, E. R. Tatnall, '07. Time, 2 minutes, 14 seconds.

RUNNING HIGH JUMP—Won by Cary, '06; second and third, Pleasants, '06, Philips, '06. Height, 5 feet, 1 inch.

220 YARDS DASH—Won by Brown, '06; second, E. C. Tatnall, '07; third, P. W. Brown, '07. Time, 25 seconds.

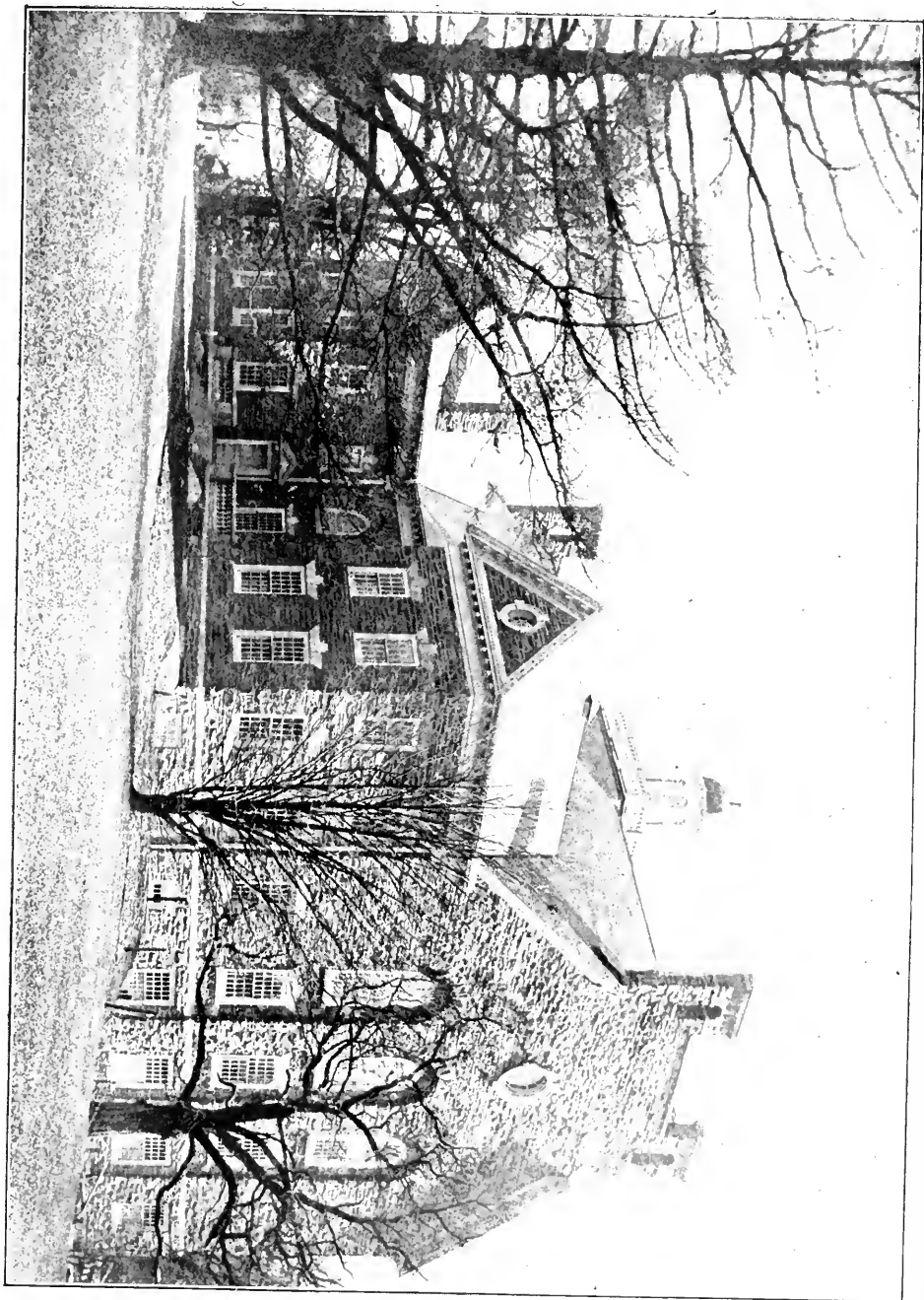
SHOT PUT—Won by Lowry, '06; second, Philips, '06; third, Pleasants, '06. Distance, 34 feet, 4 inches.

120 YARDS HIGH HURDLES—Won by Brown, '06; second, Pleasants, '06; third, Rossmässler, '07. Time, 18 seconds.

440 YARDS DASH—Won by E. C. Tatnall, '07; second, Cary, '06; third, Philips, '06. Time, 56 1-5 seconds, (record).

RUNNING BROAD JUMP—Won by Brown, '06; second, Philips, '05; third, Pleasants, '06. Distance, 19 feet, 4 inches.

The sports were won by the Sophomores with a score of 53 to 19.





Association Foot Ball, 1903-4.

President—C. C. MORRIS, '04

Vice-President—R. L. PEARSON, '05

Manager, Secretary and Treasurer—A. G. PRIESTMAN, '05

Assistant Manager—B. ESHLEMAN, '05

Captain—H. H. MORRIS, '04

November 28

HAVERFORD, 2	Positions	PHILADELPHIA, 1
Bradley . 4	goal	Green
Dickson . 6	right full-back	Le Roy
Longstreth . 8	left full-back	Donohue
Cookman . 5	right half-back	Sheppard
Pleasants . 6	centre half-back	Jester
Tatnall . 7	left half-back	Sparks
Brown . 6	outside right	Harris
C. C. Morris . 4	inside right	Young
H. H. Morris . 4	centre forward	Ballard
Spaeth . 5	inside left	Jennings
Icid . 10	outside left	Stewart

Time of halves—35 minutes. Referee—Hanford

December 19

HAVERFORD, 3	Positions	GERMANTOWN, 1
Bradley	goal	C. Newhall
Priestman	right full-back	Pearson
Dickson	left full-back	Jones
Pleasants	centre half-back	Sill
Cookman	right half-back	Seeds
Rossmassler	left half-back	Shoemaker
Brown	outside right	Lea
C. C. Morris	inside right	Kelley
H. H. Morris	centre forward	O'Neill
Tatnall (Spaeth)	inside left	White
Reid	outside left	Blakely

Time of halves—35 minutes.

January 16

MERION, 6	Positions	HAVERFORD, 2
E. S. Hare	goal	Bradley
Wetherill	left full-back	Dickson
R. G. Hare	right full-back	Cox
Colahan	left half-back	Rossmassler
Haughton	centre half-back	Pleasants
Sayres	right half-back	Cookman
Evans	left wing	Reid
W. Thayer	left inside	Spaeth
Lester	centre forward	H. H. Morris
S. G. Thayer	right inside	C. C. Morris
Plummer	right wing	P. W. Brown

Time of halves—40 minutes.

December 12---Merion 5; Haverford 2.



W. S. BRADLEY, '04—*Chairman*
 E. RUTTS, '05—*Vice-Chairman*
 T. J. MEGEAR, '04—*Manager*
 H. W. JONES, '05—*Assistant Manager*
 C. R. HAIG, '04—*Captain*
 DR. J. A. BABBITT—*Director*
 J. M. S. EWING, '06—*Assistant*
 S. G. SPAETH, '05—*Accompanist*

1st Team and Substitutes

C. R. Haig, Capt.	C. S. Bushnell
W. P. Bonbright	C. S. Lee
D. L. Burgess	J. P. Edsall
T. K. Brown, Jr.	C. C. Morris
A. T. Lowry	J. R. Stratton
W. Carson	J. R. Thomas
R. I. Cary	W. R. Rossmassler
J. M. S. Ewing	T. S. Downing

The Gymnasium Season.

With practically the same team as in the previous year—the only important exception being the absence of Duer and the presence of Ewing—the gymnasium activities were carried through most successfully. Early in the season an innovation was introduced in the form of a quadrangular exhibition by Pennsylvania, Princeton, New York University and Haverford, whose names give sufficient commendation. In every respect it was a first-class exhibition. Later in the season, on the 12th of March, the annual contest with Lehigh took place, which we won by a score of 29 to 25 in one of the most exciting competitions in recent years, at Haverford. Finally should be mentioned, the interscholastic meeting with over a hundred entries by the preparatory schools and a total attendance of nearly a thousand people.

The following won their gymnasium emblems: Burgess, Haig, Brown, Cary, and Ewing. Haig and Ewing were awarded the college H. for the first time granted to the gymnasium.

C. R. H.

Quadrangular Exhibition

January

Haverford, Princeton, Pennsylvania and New York
University

Music.

Haverford College Mandolin Club.

- 1 HORIZONTAL BAR.

Dunning, Holzhauser	PRINCETON
Brown, Edsall, Ewing, Rossmassler.	HAVERFORD
Krause, Suiter.	UNIVERSITY OF PENNSYLVANIA
Belcher, Bartelmez	NEW YORK UNIVERSITY
 - 2 TRAPEZE.

Blakeman, St. John, Karow.	PRINCETON
------------------------------------	-----------
 - 3 HORSE.

Krause.	UNIVERSITY OF PENNSYLVANIA
Belcher, Peck.	NEW YORK UNIVERSITY
Carson, Cary, Thomas.	HAVERFORD
 - 4 CLUB SWINGING.

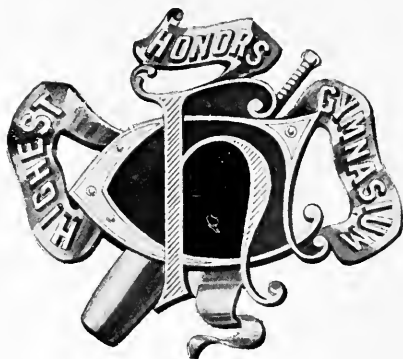
Bonbright, Burgess, Kratz, Withers, Downing, Seely, Edsall, Shortlidge.	HAVERFORD
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 - 5 RINGS.

Dunning, Hemmingway.	PRINCETON
Haig, Morris, Bushnell, Lee.	HAVERFORD
Kempf, Krause.	UNIVERSITY OF PENNSYLVANIA
Peck, Prochazka	NEW YORK UNIVERSITY
- Music.
- Haverford College Mandolin Club.
- 6 PARALLEL BARS.

Hemmingway.	PRINCETON
Haig, Ewing, Brown, Stratton.	HAVERFORD
Dieterle, Krause, Suiter, Kempf.	UNIVERSITY OF PENNSYLVANIA
Belcher, Bartelmez.	NEW YORK UNIVERSITY
 - 7 CLUB SWINGING.

Stevenson.	NEW YORK UNIVERSITY
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 - 8 TUMBLING.

Haig, Brown, Ewing.	HAVERFORD
Eunson, Hardy	NEW YORK UNIVERSITY
Artressi, Dieterle, Kempf, Suiter.	UNIVERSITY OF PENNSYLVANIA
Holzhauser	PRINCETON



Annual Gymnastic Contest

Haverford vs. Lehigh

March 12th, 1904

Results :

HORIZONTAL BAR—First, Brown, Lehigh; second, Brown, '06, H. C., third, Evans, '06, Lehigh.

PARALLEL BARS—First, Ewing, '06, H. C.; second, Brown, Lehigh; third, Haig, '04, H. C.

CLUB SWINGING—First, Burgess, '04, H. C.; second, Stauffer, Lehigh; third, Bonbright, '04, H. C.

FLYING RINGS—First, Brown, Lehigh; second, Haig, '04, H. C.; third, Scott, Lehigh.

HORSE—First, Cary, '06, H. C.; second, Mervine, '05, Lehigh; third, Carson, '06, H. C.

TUMBLING—First, Haig, '04, H. C.; second, Evans, Lehigh; third, Isert, Lehigh.

JUDGES—Dr. A. H. Sharp, Mr. P. M. Kempf and Dr. W. B. Noble.

SCORE—Haverford, 29; Lehigh, 25.

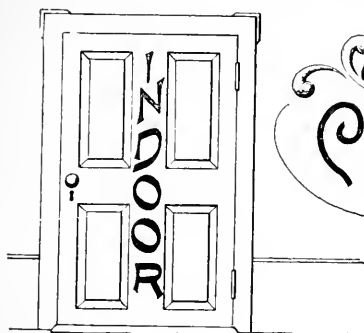
Music by the Haverford Mandolin Club.



C. R. HAIG.







Gymnasium Records

Running High Jump . . .	E. B. Conklin, '99 . . .	5 ft. 9 ¹ / ₈ in.
Spring Board Jump . . .	W. B. Rodney, '97 . . .	7 ft. 2 in.
Horizontal Bar Jump . . .	F. B. Jacobs, '97 . . .	8 ft. 3 in.
Fence Vault	A. R. Yearsley, 1901 . . .	6 ft. 6 in.
High Kick	J. W. Reeder, 1902 . . .	9 ft. 6 in.
Putting Shot	W. W. Hall, 1902 . . .	38 ft. 5 in.
R. Hop, Step and Jump . . .	J. W. Reeder, 1902 . . .	37 ft. 9 in.
Std. Broad Jump	W. V. Dennis, 1902 . . .	10 ft. 1 ¹ / ₂ in.
Std. High Jump	W. V. Dennis, 1902 . . .	4 ft. 6 in.
Chest Pull up	F. N. Vail, '89	37
Chest Dip	F. N. Vail, '89	44
High Dive	F. B. Conklin, '99 . . .	5 ft. 5 in.
	H. H. Jenks, 1900 . . .	5 ft. 5 in.



T. K. BROWN, JR.

Annual Inter-Scholastic Gymnastic and Athletic Meeting

The second annual Interscholastic Indoor Athletic and Gymnastic Meeting was held in the Haverford College Gymnasium on the evening of February 26th. There were altogether one hundred and sixty-three entries, representing fifteen schools in Philadelphia and its vicinity.

Summary :

SHOT PUT—Won by Andrees, Lawrenceville ; Second, Klous, Dwight.

FLYING KINGS—Won by Hanna, Horace Mann ; second, J. A. Baker, Haverford.

HORIZONTAL BAR—Won by G. V. Baker, Haverford ; second, Hanna, Horace Mann.

220 YARDS DASH—Won by George, Haverford ; second, Reed, Lawrenceville.

RUNNING HIGH JUMP—Won by Shoemaker, Penn Charter ; second, Swain, Friend's Central.

HIGH KICK—Won by Shoemaker, Penn Charter ; second, Pew, Haverford.

PARALLEL BARS—Won by Akahoshi, Lawrenceville ; second, Shoonmaker, Trinity.

TUMBLING—Won by Bushnell, Penn Charter ; second, J. A. Baker, Haverford.

HORSE—First, Haberman, Lawrenceville ; second, Shoonmaker, Trinity.

FENCE VAULT—First, J. A. Baker, Haverford ; second, Robinson, Swarthmore.

TWENTY YARD DASH—First, George, Haverford ; second, Smith, DeLancey.

CLUB SWINGING—First, Pearsall, Yeates ; second, Wilson, Episcopal.

General Athletic Organization

C. C. MORRIS—*President*

A. H. HOPKINS—*Vice-President*

J. D. PHILIPS—*Secretary*

C. J. RHODES—*Treasurer*

Track Department

C. C. MORRIS—*Chairman*

R. P. LOWRY—*Vice Chairman*

A. H. HOPKINS—*Manager*

C. S. BUSHNELL—

Assistant Manager

H. H. MORRIS - *Captain*

Athletic Team

H. H. MORRIS, Captain

P. D. FOLWELL

W. T. HILLES

C. C. MORRIS

C. S. BUSHNELL

A. H. HOPKINS

H. W. JONES

A. G. PRIESTMAN

T. K. BROWN

R. L. CARY

A. T. LOWRY

W. K. MILLER

J. D. PHILIPS

P. W. BROWN

H. P. FRITZ

E. C. TATNALL



H. H. MORRIS

The Athletic Season

The past season in track athletics has proved a most successful one and gives still brighter promise for another year, as practically all of this year's team will remain at college. Notable features of the year's work were the increased interest taken and the improved quality of the work done. The late spring hampered us very much in starting out-door practice, and it was wholly due to the hard and conscientious work done that the men got into form so soon. By the time of the Rutgers meet all were in very good condition and the much dreaded Rutgers track team proved an easy proposition. We even defeated them in one of their specialties, heretofore untried at Haverford. We cannot overlook special mention of the individual work of Tatnall, who won both half and mile in the Rutgers meet and finished the season in a blaze of glory by winning third place in a remarkably fast mile in the annual Intercollegiate Championships.

H. H. M.



16th Annual Field Days of the Haverford College Athletic Association

Preliminary Day—April 13th, 1904

- 100-YARDS DASH—First heat won by Longstreth, P. G. ; second, T. K. Brown, Jr., '06 ; third, Scull, '05 ; second heat won by C. C. Morris, '04 ; second, P. W. Brown, '07 ; third, Kennard, '06.
- SHOT PUT—Won by Folwell, '04 ; second, Lowry, '06 ; third, Hopkins, '05. Distance, 34 ft., 2 in.
- HALF MILE RUN—Won by E. C. Tatnall, '07 ; second, Miller, '06 ; third, H. H. Morris, '04. Time, 2 min., 7 sec.
- 220-YARDS DASH—First heat won by Brown, '07 ; second, C. C. Morris, '04. Second heat won by W. Longstreth, P. G. ; second, Winslow, '06.
- POLE VAULT Tie between Lowry, '06 and Phillips, '05 ; third, tie between Scull, '05 and Smiley, '06. Height, 9 ft., 4 in.
- 220-YARDS HURDLES—Won by Longstreth, P. G. ; second, Brown, '06 ; third, Pleasants, '06. Time, 28 4-5.

Annual Spring Meeting

Final Day

April 27th, 1904

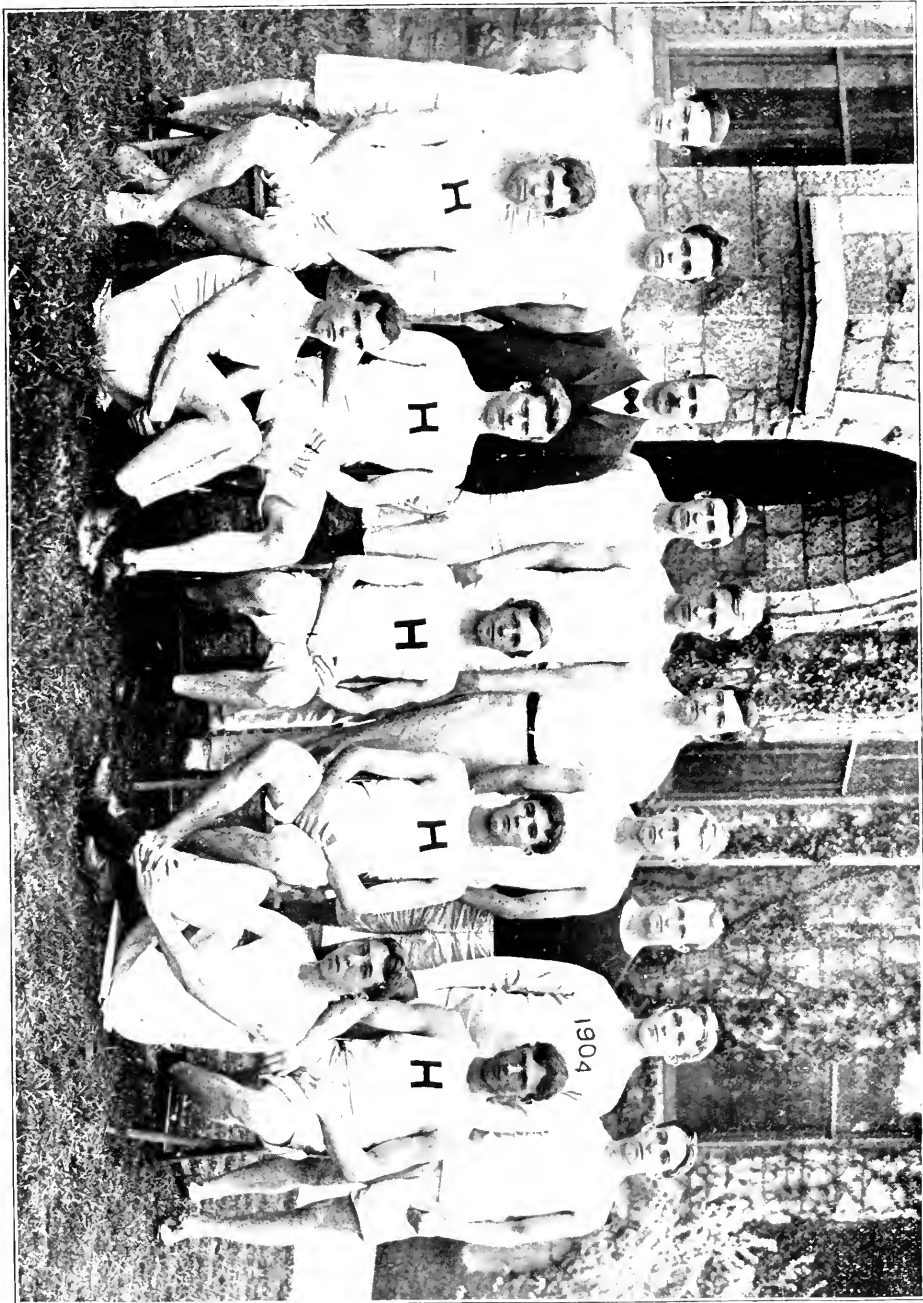
- HIGH JUMP—Won by Philips, '06 ; second, tie between Pleasants, '06 and Rossmassler, '07. Height, 5 ft., 1 in.
- 100-YARDS DASH—Won by J. L. Scull, '05 ; second, C. C. Morris, '04 ; third, T. K. Brown, '06. Time, 11 2-5 sec.
- ONE MILE RUN—Won by E. C. Tatnall, '07 ; second, H. H. Morris, '04 ; third, W. K. Miller, '06. Time, 4 min., 45 sec. (record).
- RUNNING BROAD JUMP—Won by T. K. Brown, Jr., '06 ; second, Philips, '06 ; third, Pleasants, '06. Distance, 20 ft., 7 in.
- 220-YARDS DASH—Won by P. Brown, '07 ; second, C. C. Morris, '04 ; third, E. F. Winslow, '05. Time, 25 3-5 sec.
- 120-YARDS HURDLES—Won by T. K. Brown, Jr., '06 ; second, A. H. Hopkins, '05 ; third, W. P. Bonbright, '04. Time, 17 1-5 sec.
- HAMMER THROW—Won by H. W. Jones, '05 ; second, Lowry, '06 ; third, Wood, '07. Distance, 113 ft., 3 in.
- 440-YARDS DASH—Won by A. G. Priestman, '05 ; second, Hilles, '04 ; third, Reid, '06. Time, 57 sec.

Individual Points

Brown, '06, 14 points, and Philips, '06, 9 points.

Final Score

1904—20 points ; 1906—45 1/2 points ; 1905—20 1/2 points ; and 1907—17 points. 1906 wins the meet.





Haverford-Rutgers Meet

May 7th, 1904

- 100 YARDS DASH—Won by T. K. Brown, Jr., '06 (Haverford); second, C. S. Brinkerhoff (Rutgers). Time 10 4-5 sec.
- RUNNING BROAD JUMP—Won by T. K. Brown, Jr., '06 (Haverford); second, tie between W. P. Morton and R. F. Moon (Rutgers) Distance, 21 ft. 2½ in. (record).
- 120 YARDS HURDLES—Won by Brown, '06 (Haverford); second, Willer (Rutgers). Time, 16 4-5 sec. (record).
- HALF-MILE RUN—Won by E. C. Tatnall, '07 (Haverford); second, Miller, '06 (Haverford). Time, 2 min. 6 3-5 sec.
- SHOT PUT—Won by Moon (Rutgers); second, Folwell, '04 (Haverford). Distance 35 ft. 5 in.
- 220 YARDS DASH—Won by A. T. Swan (Rutgers); second, Brinkerhoff. Time 24 4-5 sec.
- POLE VAULT—Tie between Lowry, '06, and Philips, '06 (Haverford). Height 9 ft. 3 in.
- HAMMER THROW—Won by Jones, '05 (Haverford); second, Lowry '06 (Haverford). Distance 110 ft. 2 in.
- 220 YARD HURDLES—Tie between C. S. Brinkerhoff (Rutgers) and Brown, '06 (Haverford). Time 28 3-5 sec.
- HIGH JUMP—Tie between Philips, '06 (Haverford), and Cary, '06 (Haverford.) Height, 5 ft. 1 in.
- MILE RUN—Won by Tatnall, '07 (Haverford); second, Morris, '01 (Haverford), (record). Time, 4 min. 44 4-5 sec.
- 440 YARDS DASH—Won by Swan (Rutgers); second, Priestman (Haverford). Time, 54 4-5 sec.
- TWO-MILE RUN—Won by Miller (Haverford); second, Roberts (Rutgers). Time, 14 min. 35 sec. (new record).
- Final score, 70—34.



<i>Event</i>	<i>Made by</i>	<i>Time or Dist.</i>	<i>When Made</i>
100-Yards Dash.....	W. W. Hall, '02.....	19 2-5 sec.....	1899
	E. Y. Brown, Jr., '01..	10 2-5 sec.....	1900
220-Yards Dash.....	W. W. Hall, '02.....	23 sec.....	1899
440-Yards Dash.....	W. B. Rodney, '97....	53½ sec.....	1897
Half-Mile Run.....	T. F. Bausman, '05....	2 min. 5 2-5 sec..	1902
One-Mile Run.....	E. C. Tatnall, '07.....	4 min. 44 4-5 sec.	1904
Standing Broad Jump..	E. B. Conklin, '09.....	9 ft. 7½ in.....	1901
Running Broad Jump..	T. K. Brown, Jr., '06...	21 ft. 2½ in.....	1901
Running High Jump....	J. D. Phillips, '06.....	5 ft. 8½ in.....	1903
Putting Shot.....	W. W. Hall, '02.....	37 ft. 8 in.....	1899
Throwing Hammer....	H. W. Jones, '05.....	122 ft. 2 in.....	1903
120-Yards Hurdles....	T. K. Brown, Jr., '06..	16 4-5 sec.....	1904
220-Yards Hurdles....	J. Wallace Peeder, '02..	27 sec.....	1902
Throwing Cricket Ball..	W. W. Justice, Jr., '00..	355 ft. 3 in.....	1900
Pole Vault.....	R. H. Patton, '01.....	9 ft. 7 in.....	1901
	J. Scull, '05.....	9 ft. 7 in.....	1902
Two-Mile Run.....	W. K. Miller, '06.....	11 min. 35 sec...	1904

Holders of the Walton Prize Cup

<i>Year</i>	<i>Name</i>	<i>Class</i>	<i>Points</i>
1901.....	J. W. Reader.....	1902.....	23
1902.....	J. W. Reader.....	1902.....	53½
1903.....	T. K. Brown, Jr.....	1906.....	42
1904.....	T. K. Brown, Jr.....	1906.....	45



Princeton Annual Handicap Games

HAVERFORD CONTESTANTS:

Half-Mile Run—E. C. Tatnall, '07. Won second place.

Running Broad Jump—J. D. Philips, '06.

220-Yards Hurdles—W. C. Longstreth, P. G. Won second place.

Inter-Collegiate Athletic Games

[Mott Haven]

HAVERFORD REPRESENTED BY:

H. H. Morris, '05

T. K. Brown, Jr., '06

E. C. Tatnall, '07

Tatnall won third place in the Mile-Run, winning two points for Haverford. Actual time about 4 min. 28 sec.

Inter-Class Games

FOOT BALL GAME, 1906 vs. 1907—Score 6 to 0. Won by 1907.

INTER-CLASS SPORTS—Won by 1906.

Score—1904, 20 points; 1905, 20½ points; 1906, 45½ points; 1907, 17 points.

INTER-CLASS CRICKET GAMES:

1905 vs. 1906—Won by 1905. Score, 77 no wickets, 55 all out,

1904 vs. 1905—Won by 1905. Score, 191-137.

1906 vs. 1907—Won by 1906. Score, 119-49.

The Walton Prize Cup

PRESENTED by Mr. Ernest F. Walton, of the Class of 1890 for the encouragement of individual athletic work, and to be awarded annually to the student who wins the highest total of points in athletic competition during the college year, and subject to the following conditions :

1. The athletic events accepted shall be those of the annual inter-class athletic meeting, the sophomore-freshman athletic sports, the Pennsylvania relay carnival, the annual Princeton handicap games, and the I. C. A. A. A. meeting. Additional events may be accepted at the discretion of the committee of award.

2. Points shall count as follows :

Inter-Class Athletic Meeting—Five, three and one for first, second and third places, respectively.

Sophomore-Freshman Sports—Three, two and one for first, second and third places.

Pennsylvania Relay Carnival—Five or three points for each member of the team winning first or second place.

Princeton Handicap Meeting—Ten, six and two for first, second and third places.

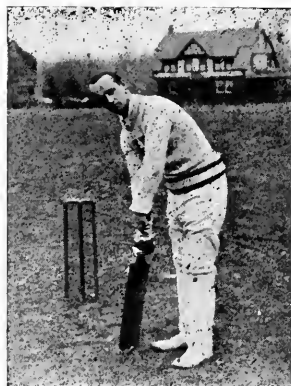
I. C. A. A. A. Meeting—Twenty, fifteen, ten and five points for first, second, third and fourth places, respectively.

3. The athletic sub-committee of the general advisory athletic committee of the alumni and students shall constitute the committee of award.

4. The winner of the Cup shall hold the same for one year and his name with total points won shall be inscribed upon it.

5. The Cup shall be returned to the athletic director immediately after the Inter-collegiate Meeting (I. C. A. A. A.), and shall be re-awarded within the two weeks following the same meeting.

6. The conditions above outlined may be modified at the unanimous wish of the joint student and alumni committee with the consent of the donor.



C. C. MORRIS.

Cricket Organization and Teams

H. H. MORRIS, 1904, *Chairman*

R. L. PEARSON, 1905, *Vice-Chairman*

A. G. PRIESTMAN, 1905, *Manager*

E. RITTS, *Assistant Manager and Secretary*

C. C. MORRIS, 1904, *Captain*

H. H. MORRIS, 1904, *Chairman*

W. P. BONBRIGHT, 1904

C. C. MORRIS, 1904

R. L. PEARSON, 1905

H. PLEASANTS, JR., 1906

1st XI

C. C. Morris, Capt.
H. H. Morris
W. P. Bonbright
A. H. Hopkins
A. G. Priestman
R. L. Pearson
E. C. Pierce
A. T. Lowry
H. Pleasants
H. W. Doughten
F. D. Godley

2nd XI

R. P. Lowry, Capt.
P. D. Folwell
C. R. Craig
S. G. Spaeth
T. S. Downing
E. Ritts
H. H. Cookman
J. D. Philips
R. J. Shortlidge
A. E. Brown
H. Evans

3rd XI

W. S. Bradley, Capt.
J. W. Nicholson
J. C. Thomas, '07
B. H. Cates
W. R. Rossmassler
W. M. Wills
B. Windle
E. F. Bainbridge
E. R. Tatnall
A. C. Dickson
F. R. Taylor
P. W. Brown
S. J. Gummere
W. H. Haines, '07
J. P. Magill



The Cricket Season of 1904

At the present writing, with the season nearing its close, it is quite evident that this year's cricket team has a proud record. Its highest achievement has been in the Intercollegiate Games where it won the series championship. The Pennsylvania team gave us the best contest, though they were hardly dangerous at any stage, and Cornell played extremely well considering it was their opening game of the season. Harvard, too, had been playing on soft wickets during the spring and were in no condition to play on the hard wicket of Cope Field. The only game we have so far lost was with Livingstone Field Club at Staten Island, and this by the narrowest possible margin and by no means outclassed; to appreciate the defeat by such a team it should be known that the present captain of the Derbyshire County XI was playing against us. No other game should be lost before the team sets sail for England, and such a record will give the highest encouragement for our tour abroad.

C. C. M.

Published Cricket Schedule.

First Eleven.

April 30	GERMANTOWN C. C.....	At Manheim
May 11	PHILADELPHIA C. C.....	At Wissahickon Heights
May 12	CORNELL.....	At Ithaca
May 14	NEW JERSEY A. C.....	At Bayonne
May 18	PENNSYLVANIA.....	At Haverford
May 20	HARVARD.....	At Haverford
May 24	AUSTRALIAN STUDENTS.....	At Haverford
May 28	MERION.....	At Haverford
May 30	FRANKFORD.....	At Haverford
June 1	ALL SCHOLASTIC.....	At Haverford
June 4	NEXT (15) FIFTEEN.....	At Haverford
June 10	ALUMNI.....	At Haverford

Second Eleven.

April 30	GERMANTOWN.....	At Haverford
May 7	MERION.....	At Haverford
May 11	FRANKFORD.....	At Frankford
May 14	WISSAHICKON.....	At Wissahickon
May 21	BELMONT.....	At Haverford
May 24	PHILADELPHIA.....	At Wissahickon
May 28	GIBBSBORO.....	At Gibbsboro
May 30	OVERBROOK.....	At Overbrook
June 1	RADNOR.....	At Wayne
June 4	FIRST ELEVEN.....	At Haverford

Third Eleven.

April 14	HAVERFORD GRAMMAR SCHOOL.....	At Haverford
April 30	BELMONT JUNIORS.....	At Haverford
May 7	FRIENDS' SELECT.....	At Haverford
May 14	HADDONFIELD.....	At Haddonfield
May 24	DELANCEY.....	At Haverford
May 28	FRIENDS' SELECT.....	At Haverford
June 4	U. OF P. FRESHMEN.....	At Haverford

Record of Matches 1904.

April 30	Haverford	59	
	Germantown	39	
May 11	Haverford	101	(7 wickets)
	Philadelphia C. C.	82	
May 12	Haverford	238	
	Cornell	146	
May 14	Haverford	107	
	Livingston F. Club.....	108	
May 18	Haverford	183	
	Univ. of Penna.....	132	
May 20	Haverford	306	(4 wickets)
	Harvard	56 and 72	
May 24	Haverford	169	
	Next 15	153	
May 28	Haverford	277	
	Halifax B. M.....	85	
May 30	Haverford	74	
	Frankford	183	
June 4	Haverford	117	
	Next 15	53	

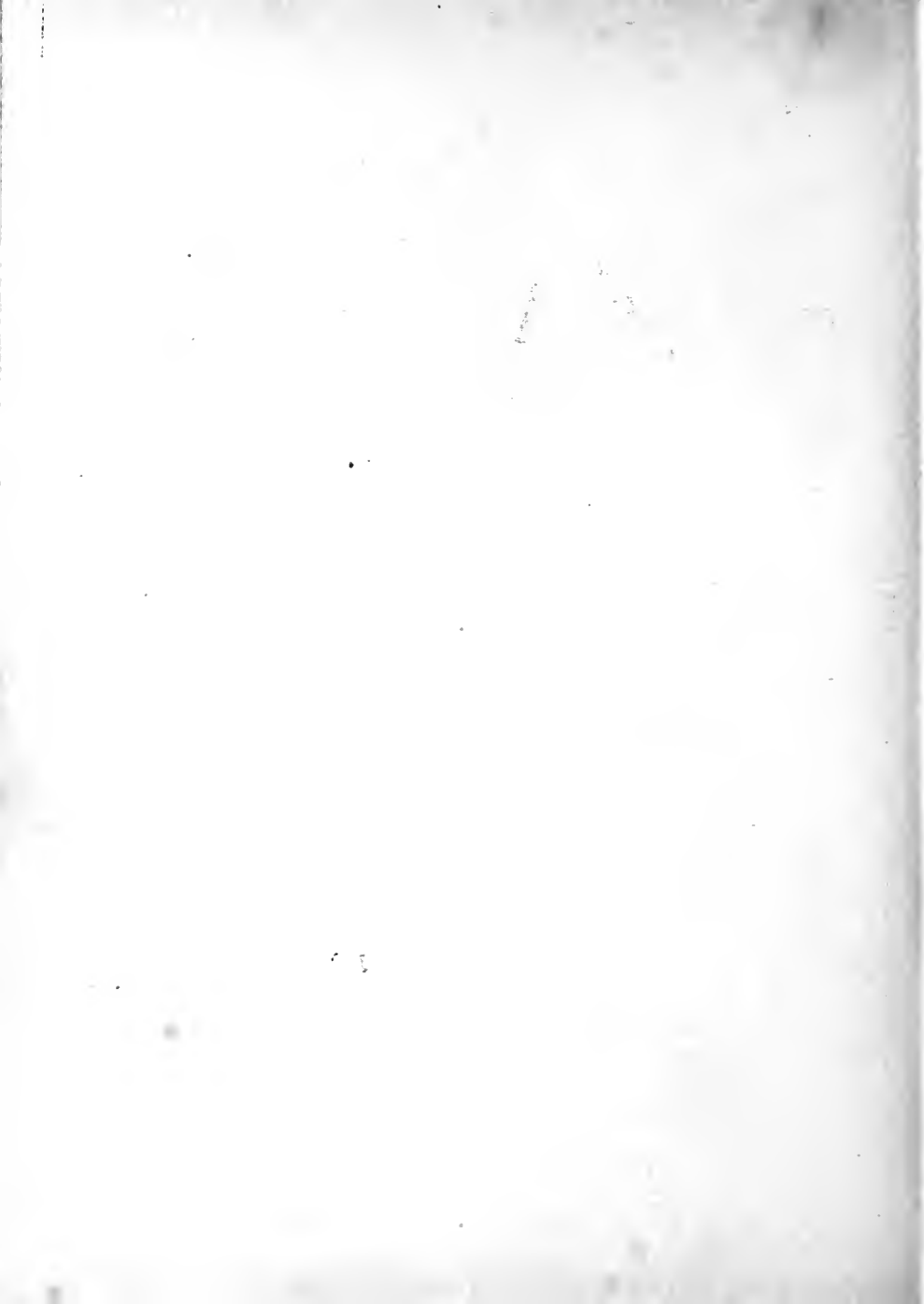
Second Eleven.

May 7	Haverford	35	
	Merion Summer Eleven.....	73	
May 11	Haverford	108	
	Frankford Summer	96	
May 14	Haverford	102	
	Wissahickon	110	
May 21	Haverford	156	(4 wickets)
	Belmont	133	
May 28	Haverford	89	
	Gibbsboro	127	
May 30	Haverford	149	
	Overbrook	12	(1 wicket)
June 1	Haverford	102	
	Radnor	66	

Third Eleven.

April 14	Haverford	71	
	Haverford Grammar	27	(3 wickets)
April 30	Haverford	81	
	Belmont Juniors	49	
May 7	Haverford	119	
	Friends' Select	39	
May 14	Haverford	122	
	Haddonfield C. C.....	77	
May 21	Haverford	65	
	Belmont Juniors	61	





Haverford vs. Cornell. May 12, 1904

HAVERFORD.

	RUNS
C. C. Morris, b. Reece	66
H. H. Morris, c. Douglass, b. Gregson	0
R. L. Pearson, run out	0
W. P. Bonbright, b. Jones	11
A. H. Hopkins, b. Gregson	58
F. D. Godley, c. Jones, b. Gregson	37
H. W. Doughten, c. Waters, b. Sayce	11
A. G. Priestman, stumped Adendorff, b. Sayce	13
A. T. Lowry, c. Jones, b. Sayce	8
H. Pleasants, Jr., not out	15
E. C. Peirce, b. Sayce	4
Extras	15

Total . . 238

BOWLING ANALYSIS.

	B.	M.	W.	R.
Greyson	126	4	3	77
Jones	84	1	1	46
Peace	30	0	0	19
Reece	42	1	1	51
Sayce	29	0	3	29

CORNELL.

	RUNS
Greyson, c. Pearson, b. Bonbright	57
Close, b. Hopkins	29
Waters, b. Priestman	8
Sayce, c. Doughten, b. Priestman	8
Adendorff, c. Lowry, b. Bonbright	10
Peace, b. Priestman	21
Reece, b. Priestman	0
Jones, b. Priestman	4
Douglass, b. Priestman	1
Edge, not out	0
Bellwiller, b. Priestman	0
Extras	8

Total . . 146

BOWLING AVERAGE.

	B.	M.	W.	R.
Pleasants	60	2	0	22
Priestman	118	6	7	59
Hopkins	48	2	1	30
Godley	24	0	0	13
Bonbright	18	0	2	14

Haverford vs. Harvard. May 20, 1904

HARVARD		RUNS
(FIRST INNING)		
W. N. Taylor, c. C. C. Morris, b. Godley	.	0
J. P. Morris, c. Bonbright, b. Pleasants	.	2
C. H. Carter, b. Godley	.	8
R. M. Gummere, c. Priestman, b. Godley	.	0
G. Barnes, c. and b. Pleasants	.	2
Wyndham, c. Gittens, b. Pearson	.	1
F. C. Taylor, b. Pleasants	.	0
T. Dougherty, c. H. H. Morris, b. C. C. Morris	.	4
A. G. H. Spiers, c. Bonbright, b. Doughten	.	15
B. Trainer, c. and b. Doughten	.	0
L. R. King, not out	.	22
Extras	.	2

BOWLING ANALYSIS

	B.	M.	Total	W.	R.
Pleasants	24	0	3	14	
Godley	18	2	3	2	
Pearson	18	2	1	3	
C. C. Morris	18	0	2	7	
Doughten	14	0	2	18	

HAVERFORD

	RUNS
C. C. Morris, c. Trainer, b. F. C. Taylor	8
F. D. Godley, c. Barnes, b. Gummere	27
R. L. Pearson, c. Trainer, b. Gummere	8
W. P. Bonbright, not out	101
H. H. Morris, b. F. C. Taylor	37
A. Hopkins, not out	111
H. W. Doughten, Jr., did not bat	—
A. G. Priestman, did not bat	—
A. T. Lowry, did not bat	—
H. Pleasants, Jr., did not bat	—
E. C. Peirce, did not bat	—

Total . . . 181

BOWLING ANALYSIS

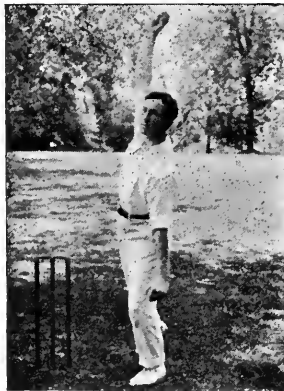
	B.	M.	W.	R.
F. C. Taylor	186	6	2	125
W. N. Taylor	30	0	0	24
R. M. Gummere	78	1	2	52
J. P. Morris	84	3	0	54
King	24	0	0	32
Barnes	12	0	0	15

(HARVARD SECOND INNINGS)

	RUNS
R. L. King, c. H. H. Morris, b. C. C. Morris	18
J. P. Morris, b. H. H. Morris	19
C. H. Carter, c. Lowry, b. Priestman	14
W. Gittens, b. Godley	5
R. M. Gummere, c. and b. Godley	4
W. N. Taylor, b. Godley	4
G. Barnes, b. Priestman	0
F. C. Taylor, c. Lowry, b. Godley	4
T. Dougherty, b. Priestman	0
A. G. H. Spiers, b. Godley	2
(W. N. Taylor again)	
Extras	2
Total	70

BOWLING ANALYSIS

	R.	M.	W.	R.
C. C. Morris	36	0	1	31
H. H. Morris	30	0	1	19
A. H. Hopkins	18	0	0	18
F. D. Godley	42	1	5	11
A. G. Priestman	24	3	3	1



H. PLEASANTS.

Haverford vs. Pennsylvania

May 18, 1904.

HAVERFORD

C. C. Morris, c. White, b. W. Graham.....	101
F. D. Godley, b. W. Graham.....	17
R. L. Pearson, c. Dansey, b. W. Graham.....	5
W. P. Bonbright, b. De Ravin.....	6
H. H. Morris, b. De Ravin.....	0
A. H. Hopkins, b. Weeks.....	9
H. W. Doughten, L. B. W. Weeks.....	4
A. G. Priestman, b. W. Graham.....	11
A. T. Lowry, not out.....	17
H. Pleasants, Jr., c. Weeks, b. W. Graham.....	3
E. C. Pierce, b. De Ravin.....	0
Extras	4
Total	183

PENNSYLVANIA

F. S. White, c. Hopkins, b. Bonbright.....	17
G. F. Dansey, b. Pleasants.....	19
S. Mifflin, b. Bonbright.....	0
W. C. Graham, c. Pleasants, b. Bonbright.....	0
N. S. De Ravin, b. Godley.....	27
W. Baker, b. Pleasants.....	28
H. C. Weeks, b. Pleasants.....	0
H. Christman, b. Pleasants.....	14
W. D. Banes, not out.....	16
D. Graham, b. Pleasants.....	0
M. A. Holland, b. Pleasants.....	2
Extras	9
Total	132

BOWLING ANALYSIS

	B.	M.	W.	R.
Priestman	102	6	0	44
Bonbright	96	8	3	33
Godley	6	0	1	4
Pleasants	51	1	6	23
Hopkins	36	0	0	21

Inter-Class Games

1906 vs. 1907

1906

	RUNS
Pleasants, c. Magill, b. Godley	12
Shortlidge, c. Godley, b. A. Brown	1
Lowry, c. P. Brown, b. A. Brown	14
Doughten, not out	61
Dickson, L. B. W., b. Godley	0
Philips, c. Magill, b. Haines	20
Bainbridge, c. Haines, b. A. Brown	0
Taylor, b. A. Brown	0
Kennard, b. Magill	7
Haines, b. Magill	0
Reid, b. Magill	1
Extras	3

1907

Total . . . 119

	RUNS
S. B. Gummere, b. Lowry	1
A. Brown c. Lowry, b. Pleasants	8
J. Magill, c. Doughten, b. Lowry	1
F. D. Godley, c. Pleasants, b. Lowry	0
Rossmassler, c. Philips, b. Pleasants	0
Windle, b. Lowry	0
H. Evans, not out	16
Nicholson, c. Reid, b. Lowry	0
P. Brown, c. Bainbridge, b. Pleasants	2
Haines, c. and b. Lowry	18
Tatnall, c. Taylor, b. Lowry	2
Extras	1

1904

Total . . . 49

Morris, C. C., b. Hopkins	10
Morris, H. H., not out	64
Folwell, c. Pierce, b. Priestman	0
Bonbright, run out	11
Haig, c. Spaeth, b. Cookman	0
Lowry, c. Pearson, b. Priestman	3
Wills, b. Priestman	0
Burgess, b. Hopkins	15
Bradley, b. Hopkins	2
Thorn, c. Spaeth, b. Priestman	12
Stokes, b. Hopkins	5
Extras	15

Total 137

1905

Hopkins, c. Bradley, b. Bonbright.....	3
Pearson, b. Folwell.....	5
Priestman, not out.....	121
Ritts, b. Folwell.....	2
Spaeth, c. Haig, b. Folwell.....	24
Cookman, c. Wills, b. Folwell.....	0
Boher, c. Haig, b. C. C. Morris.....	4
Cates, run out.....	0
Peirce, b. Bonbright.....	18
Winslow, b. C. C. Morris, c. Burgess.....	1
Alexander, b. Bonbright.....	3
Extras	9
Total	190

1906

Pleasants, c. Cookman, b. Hopkins.....	4
Shortlidge, c. Peirce, b. Priestman.....	2
Lowry, c. Peirce, b. Priestman.....	29
Doughten, c. Alexander, b. Priestman.....	0
Philips, c. Alexander, b. Priestman.....	6
Bainbridge, c. Alexander, b. Hopkins.....	0
Dickson, c. Pearson, b. Hopkins.....	0
Kennard, c. Cookman, b. Hopkins.....	2
Taylor run out.....	0
Reid, b. Hopkins.....	0
Haines, not out.....	0
Extras	10
	53

1905

Pearson, not out.....	18
Hopkins, not out.....	54
Priestman	} —
Spaeth	
Peirce	
Cookman	
Ritts	
Boher	
Alexander	
Winslow	
Extras	5
Total	77

SPRING BOWLING TOURNAMENT—1903

Bowling Committee

H. M. SCHABACKER, '04

J. CHARLES, '04

H. W. JONES, '05

Preliminary	First Round	Second Round	Third Round	Semi-finals	Finals
Shoemaker, '07.....	Shoemaker.....	Shoemaker.....	Birdsall.....	Philips	Schabacker
Gummere, '07.....	430-320	350-338			
Fales, '06.....	Fales.....				
Jones, '05.....	377-329				
Winslow, '05.....	Winslow.....	Birdsall.....	Philips.....	Schabacker	
Trueblood, '04.....	(default)	376-367			
Birdsall, '07.....	Birdsall.....				
Wills, '04.....	389-310				
Warner, '07.....	Warner.....	Padin.....	Philips.....	Schabacker	
Dr. McGraw.....	379-265	423-390			
Padin, '07.....	Padin.....				
Cookman, '05.....	434-361				
Kimber, '04.....	Phillips.....	Philips.....	Wells.....	Schabacker	
Philips, '06.....	328-307	462-.07			
Spaeth, '05.....	Spaeth.....				
Evans, '07.....	417-365				
Lindley, '04.....	Claassen.....	Wells.....	Wells.....	Schabacker	
Claassen, '07.....	314-287	513-272			
F. Thomas, '07.....	Wells.....				
Wells, '04.....	390-325				
Bainbridge, '05.....	Sands.....	Dr. Babbitt	Schabacker	Schabacker	
Sands, '07.....	377-355	390-335			
Dr. Babbitt.....	Dr. Babbitt.....				
Dr. Hall.....	390-343				
H. P. Thomas, '05.....	Schabacker.....	Schabacker	Schabacker	Schabacker	
Schabacker, '04.....	420-260	518-316			
Clark, '04.....	Clark.....				
Dr. Jones.....	382-336				
Cox, '05.....	Cox.....	Cox.....	Wood.....	Wood	
Priestman, '05.....	326-280	375-374			
Murray, '05.....	Murray.....				
Fleming, '05.....	302-277				
Thorn, '04.....	Withers.....	Hilles.....	Wood.....	Wood	
Withers, '04.....	318-290	382-280			
Boher, '05.....	Hilles.....				
Hilles, '04.....	398-343				
Dickson, '05.....	Wood.....	Wood.....	Barr.....	Barr.....	
Wood, '07.....	324-322	354-277			
Burgess, '04.....	Ohl.....				
Ohl, '05.....	(default)				
Peirce, '05.....	Comfort.....	Barr.....	Barr.....	T. Crowell	
Comfort, '07.....	467-289	451-432			
Smiley, '06.....	Barr.....				
Barr, '07.....	407-403				
Dr. Gummere.....	Morris.....	Morris.....	A. Crowell.....	T. Crowell	
C. C. Morris, '04.....	415-264	407-365			
J. C. March, '07.....	March.....				
Richards, '06.....	261-249				
A. Crowell, '04.....	A. Crowell.....	A. Crowell.....	A. Crowell.....	T. Crowell	
B. Eshleman, '05.....	390-318	352-334			
Maloney, '06.....	Andrew, '04.....	Charles.....			
Andrew, '04.....	Charles, '04.....	360-323			
Charles, '04.....	T. Crowell, '06.....	T. Crowell.....	T. Crowell.....	T. Crowell	
T. Crowell, '06.....	E. R. Tatnall, '07.....	470-376			
E. R. Tatnall, '07.....	Dr. Comfort.....	442-362			
Dr. Comfort.....	J. C. Thomas, '07.....	(default)			
J. C. Thomas, '07.....	(default)				

The English Trip.

The third Haverford Cricket Team, which is to visit England this summer, differs in some ways from either of its predecessors. It is on the average a younger lot, both in age and in cricketing experience. But if this may seem to be a disadvantage in some respects, on the other hand, it may safely be said that there are no "has beens"; it would be more accurate to term them a "coming" set of players.

Firstly, taken all round, Haverford has never shown a more rattling fielding team—swift and sure in nearly every case. In Ritts, Philips, Doughten, A. T. Lowry, the two Morrisses, Godley, Pleasants and Hopkins we have some "dandies."

The percentage of advantage this gives to the bowlers can hardly be overestimated; and, with two such well-trying wicket keepers as E. C. Pierce and R. P. Lowry, our antagonists will have to earn every run.

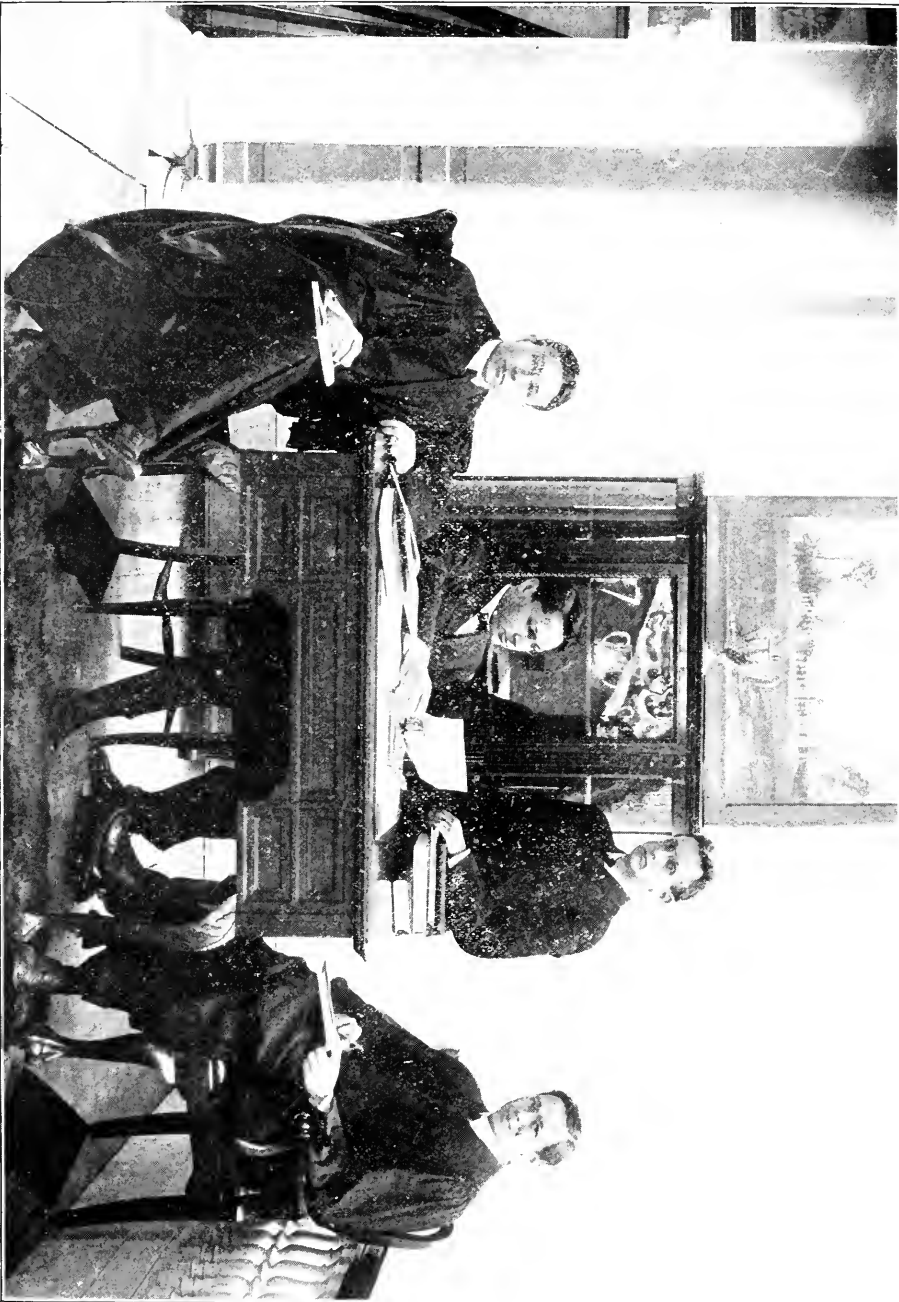
The bowling, taking both quantity and quality into consideration, is much ahead of the 1896 team and quite equal to that of 1900. H. Pleasants, Jr., and A. G. Priestman, fast; W. P. Bonbright and F. D. Godley, medium slow, and A. H. Hopkins and A. T. Lowry, medium fast, give a very good variety. There are at least two others of the team who can be put on as a change if necessary. In the batting they are all hard hitters: that is, every one of the team can, and probably will, punish loose bowling severely. While some of the more experienced batsmen, as C. C. Morris, H. H. Morris, A. G. Priestman and R. L. Pearson, have not on all occasions shown quite their former form, they are likely to be heard from very distinctly, per cable, a few weeks hence. W. P. Bonbright has improved greatly on his last years' form and has scored consistently; combining careful defence with strong punishing powers. At this writing he has a good lead in the averages. The two new stars in the batting are F. D. Godley and J. D. Philips; the former showing sound defence and clean hitting combined with coolness and patience, those first requisites of the ideal batsman. Philips, in his only two years' knowledge of the game, shows wonderful progress: he has acquired a good style and can get runs on all sides; and his painstaking efforts should lead to further improvements.

A. H. Hopkins has punished the bowling very severely on several occasions, scoring very rapidly; his form has advanced since last year, and he should get many runs this summer. H. W. Doughten and A. T. Lowry have not made as much progress thus far as some others, but will be heard from later. Ritts (left hander), Pleasants, and Peirce will probably often hit out some boundaries when most needed.

The best wishes of all Haverfordians and all American cricketers go with the team, and they should do credit to our Alma Mater and our country.

May the tour further stimulate "the noble game" in America!

H. C. '69.



CRICKET PRIZES

Prizes for 1903

AWARDED AS FOLLOWS:

COLORS to J. B. Drinker, '03; A. G. Priestman, '05; E. C. Pierce, '05; R. L. Pearson, '05; A. H. Hopkins, '05; H. Pleasants, Jr., '06.

The Cope Prize Bat, for the best batting average, to C. C. Morris, '04; average 50.56.

The Congdon Prize Ball, for the best bowling average, to H. Pleasants, Jr., '06; average 7.49.

The Haines Prize Fielding Belt, for the best work in the field, to J. B. Drinker, '03.

The Class of '85 Prize Bat, for the best batting average, to S. G. Spaeth, '05, average 14 1-3.

The Class of '85 Prize Ball, for the best bowling average, to F. R. Taylor, '06; average 8.67.

The Class of '85 Prize Belt, for the best work in the field, with honorable mention of J. D. Philips, '06, to E. W. Evans, '05.

The Dorian Prize Bat, presented by Dr. W. P. Mustard, for the highest individual score in any scheduled match, to R. L. Pearson, '05, for his score of 131 not out, against Philadelphia C. C., May 27, 1903.

The Improvement Bat, given to the Sophomore or Freshman making the most improvement during the year, to R. L. Pearson, '05.

The Shakespeare Prize Bat, for the Freshman making the highest average in the Inter-Class Championship and games, to H. W. Doughten, '06; average 45.5.

The C. R. Hinchman Prize Bat, presented by C. R. Hinchman, '96, for the best batting average in the Inter-Collegiate matches, to H. H. Morris, '04; average 102.

The Christian Febiger Prize Ball, presented by Christian Febiger, '00, for the best bowling average in the Inter-Collegiate matches, to H. Pleasants, Jr. '06; average 8.4 in Inter-Collegiate games.

Class of '85 Prize Ball, for the Inter-Class Championship, to the Class of 1905.

Prize Bat, awarded to best Freshman batsman, H. W. Doughten, Jr., '06.

Prize Ball, awarded to best Freshman bowler, H. Pleasants, Jr., '06.



Cope Prize Bat

<i>Year</i>	<i>Name</i>	<i>Class</i>	<i>Average</i>
1877—	E. T. COMFORT.....	'78.....	18.83
1878—	E. T. COMFORT.....	'78.....	10.03
1879—	SAMUEL MASON.....	'80.....	14.
1880—	SAMUEL MASON.....	'80.....	17.57
1881—	T. N. WINSLOW.....	'81.....	12.5
1882—	G. B. SHOEMAKER.....	'83.....	9.6
1883—	W. F. PRICE.....	'81.....	11.88
1884—	SAMUEL BETTLE.....	'85.....	17.25
1885—	SAMUEL BETTLE.....	'85.....	23.
1886—	G. S. PATTERSON.....	'88.....	32.8
1887—	A. G. GARRETT.....	'87.....	35.66
1888—	T. E. HILLES.....	'88.....	9.6
1889—	R. L. MARTIN.....	'92.....	13.
1890—	C. H. BURR, JR.....	'89.....	19.14
1891—	J. W. MUIR.....	'92.....	38.5
1892—	J. W. MUIR.....	'92.....	26.25
1893—	J. A. LESTER.....	'96.....	100.5
1894—	J. A. LESTER.....	'96.....	62.2
1895—	J. A. LESTER.....	'96.....	49.83
1896—	J. A. LESTER.....	'96.....	41.1
1897—	C. G. TATNALL.....	'97.....	9.85
1898—	T. WISTAR.....	'98.....	21.75
1899—	F. C. SHARPLESS.....	1900.....	26.
1900—	F. C. SHARPLESS.....	1900.....	37.
1901—	C. C. MORRIS.....	1904.....	21.89
1902—	C. C. MORRIS.....	1904.....	35.29
1903—	C. C. MORRIS.....	1904.....	50.56

Congdon Prize Ball.

<i>Year</i>	<i>Name</i>	<i>Class</i>	<i>Average</i>
1877—	J. M. W. THOMAS.....	'78.....	1.11
1878—	E. T. COMFORT.....	'78.....	6.47
1879—	W. C. LOWRY.....	'79.....	5.81
1880—	B. V. THOMAS.....	'83.....	5.78
1881—	W. L. BAILY.....	'83.....	5.31
1882—	A. C. CRAIG.....	'84.....	4.39
1883—	W. L. BAILY.....	'83.....	8.00
1885—	W. F. HILLES.....	'85.....	4.50
1886—	A. C. GARRETT.....	'87.....	8.25
1887—	J. W. SHARP, JR.....	'88.....	7.86
1888—	H. P. BAILY.....	'90.....	5.47
1889—	H. P. BAILY.....	'90.....	5.86
1890—	H. P. BAILY.....	'90.....	6.50
1891—	D. H. BLAIR.....	'91.....	17.50
1892—	JOHN ROBERTS.....	'93.....	7.33
1893—	JOHN ROBERTS.....	'93.....	7.90
1894—	A. P. MORRIS.....	'95.....	5.97
1895—	A. P. MORRIS.....	'95.....	6.46
1896—	J. A. LESTER.....	'96.....	6.19
1897—	R. S. WENDELL.....	1900.....	8.25
1898—	L. W. DEMOTTE.....	1901.....	5.22
1899—	W. S. HINCHMAN.....	1900.....	9.40
1900—	L. W. DEMOTTE.....	1901.....	6.00
1901—	L. W. DEMOTTE.....	1901.....	8.13
1902—	N. A. SCOTT.....	1902.....	10.92
1903—	H. PLEASANTS, JR.....	1906.....	7.19

Haines Prize Fielding Belt.

<i>Year</i>	<i>Name</i>	<i>Class</i>	<i>Year</i>	<i>Name</i>	<i>Class</i>
1877—	A. L. BAILY.....	'78	1891—	G. THOMAS, 3D.....	'91
1878—	J. E. SHEPPARD.....	'79	1892—	S. W. MORRIS.....	'94
1879—	A. P. CORRITT.....	'80	1893—	W. W. SUPPLEE.....	'95
1880—	W. F. PRICE.....	'81	1894—	F. P. RISTINE.....	'94
1881—	B. V. THOMAS.....	'83	1895—	J. H. SCATTERGOOD..	'96
1882—	S. B. SHOEMAKER..	'83	1896—	A. G. SCATTERGOOD..	'98
1883—	W. L. BAILY.....	'83	1897—	A. G. SCATTERGOOD..	'98
1884—	W. S. HILLES.....	'85	1898—	A. G. SCATTERGOOD..	'98
1885—	W. F. PRICE.....	'81	1899—	W. S. HINCHMAN..	1900
1886—	J. W. SHARP, JR...'	'88	1900—	W. V. DENNIS.....	1902
1887—	H. P. BAILY.....	'90	1901—	C. C. MORRIS.....	1904
1888—	C. H. BURR, JR....	'89	1902—	A. C. WOOD, JR....	1902
1889—	J. S. STOKES.....	'86	1903—	J. B. DRINKER.....	1903
1890—	J. W. MUIR.....	'90			

Class College — Departments —

Joint Alumni and Student Athletic Committee.

Alumni Members.	Faculty Members.	Student Members.
Edward Bettle, Jr., '61	Isaac Sharpless	C. N. Sheldon, '04
Chairman	Dr. Jas. A. Balbitt	B. Lester, '04
Henry Cope, '69		H. N. Thorn, '04
Jos. W. Sharp, Jr., '88		C. R. Haig, '04
Dr. Thos. F. Branson, '89		W. S. Bradley, '04
Charles J. Rhoads, '93		T. J. Megear, '04
Samuel Bettle, Jr., '95		C. C. Morris, '04
J. Henry Scattergood, '96		H. H. Morris, '04
John A. Lester, '96		A. H. Hopkins, '05
Dr. Francis B. Jacobs, '97		A. G. Priestman, '05
Alfred M. Collins, '97		E. C. Peirce, '05.

College Association

C. N. SHELDON, '04, *President*B. LESTER, '01, *Vice-President*J. D. PHILIPS, '06, *Secretary*E. M. EVANS, '05, *Treasurer*

Class Officers

B. LESTER, *President*C. C. MORRIS, *Vice-President*A. W. KRATZ, *Secretary*C. R. HAIG, *Treasurer*C. S. BUSHNELL, *President*E. M. EVANS, *Vice-President*M. W. FLEMING, *Secretary*L. SMYTH, JR., *Treasurer*R. J. SHORTLIDGE, *President*J. D. PHILIPS, *Vice-President*E. F. BAINBRIDGE, *Secretary*T. CROWELL, *Treasurer*R. W. SANDS, *President*F. D. GODLEY, *Vice-President*J. P. MAGILL, *Secretary*J. C. BIRDSALL, *Treasurer*

Golf Club

E. RITTS '05, *President*A. T. LOWRY, '06, *Vice-President*P. W. BROWN, '07, *Secretary-Treasurer*

Scientific Club

B. LESTER, '04, *President*C. R. HAIG, '04, *Vice-President*H. W. JONES, '05, *Secretary*

Advisory Board

S. C. WITHERS, '04, *President*H. W. JONES, '05, *Secretary*C. R. HAIG, '04; B. LESTER, '04; C. C. MORRIS, '04; C. N. SHELDON,
'04; C. S. BUSHNELL, '05; E. M. EVANS, '05;
and A. H. HOPKINS.

Haverford Young Men's Christian Association

Officers for the Past Year

S. C. WITHERS, '04—*President*

H. W. JONES, '05—*Vice-President*

E. RITTS, '05—*Cor. Secretary*

L. B. SEELY, '05—*Rec. Secretary*

E. M. EVANS, '05, *Treasurer*

Cabinet

S. C. WITHERS

L. B. SEELY

E. RITTS

A. W. KRATZ

H. M. SCHABACKER

E. M. EVANS

W. P. BONERIGHT

D. L. BURGESS

B. LESTER

W. T. HILLES

H. P. FIDOMAS

H. W. JONES

W. M. C. KIMBER

Officers for the Ensuing Year

H. W. JONES, '05, *President*

R. J. SHORTLIDGE, '06, *Vice-President*

C. SANDS, '07, *Cor. Secretary*

H. EVANS, '07, *Rec. Secretary*

F. G. SHELTON, '06, *Treasurer*

Cabinet

H. W. JONES

R. J. SHORTLIDGE

H. EVANS

J. D. PHILLIPS

F. G. SHELTON

R. L. CARY

T. CROWELL

C. S. BUSHNELL

L. B. SEELY





Haverfordian Staff

First Half Year

D. LAWRENCE BURGESS, 1904

Editor in Chief

W. PARKER BONBRIGHT, 1904

ROBERT P. LOWRY, 1904

A. GLYNDON PRIESTMAN, 1905

SIGMUND G. SPAETH, 1905

ARTHUR T. LOWRY, 1906

RAPHAEL J. SHORTLIDGE, 1906

FRANCIS R. TAYLOR, 1906

BERNARD LESTER, 1904 *Business Manager*

J. D. PHILIPS, 1906 *Assistant Business Manager*

Second Half Year.

S. G. SPAETH, 1905

Editor in Chief

A. G. PRIESTMAN, 1905

A. T. LOWRY, 1906

R. J. SHORTLIDGE, 1906

F. R. TAYLOR, 1906

J. P. MAGILL, 1907

PHILIPS, 1906 *Business Manager*

CARSON, 1906 *Business Manager*

Haverford College Musical Association. 1903-4.

W. M. C. KIMBER, '04—*President*

W. T. HILLES, '04—*Treasurer and Manager*

A. H. HOPKINS—*Secretary*

E. P. WEST '04—*Leader*

Longstreth, '02

Bradley, '04

Folwell, '04

Megear, '04

Kimber, '04

Hilles, '04

Charles, '04

Haig, '04

Helbert, '04

Kratz, '04

Lester, '04

Sheldon, '04

Stokes, '04

Thorn, '04

Withers, '04

West, '04

Cookman, '05

Lee, '05

Boher, '05

Cates, '05

Teller, '05

Eshleman, '05

Hopkins, '05

Peirce, '05

Ritts, '05

Scull, '05

Smyth, '05

Spaeth, '05

Winslow, '05

Pleasants, '06

Tunney, '06

Sheldon, '06

Brown, '06

Carson, '06

Breyfogel, '06

Doughten, '06

Bainbridge, '06

Shortlidge, '06

Fales, '06

Cary, '06

M. H. March, '07

Claassen, '07

Warner, '07

Rossmassler, '07

P. Brown, '07

Windle, '07

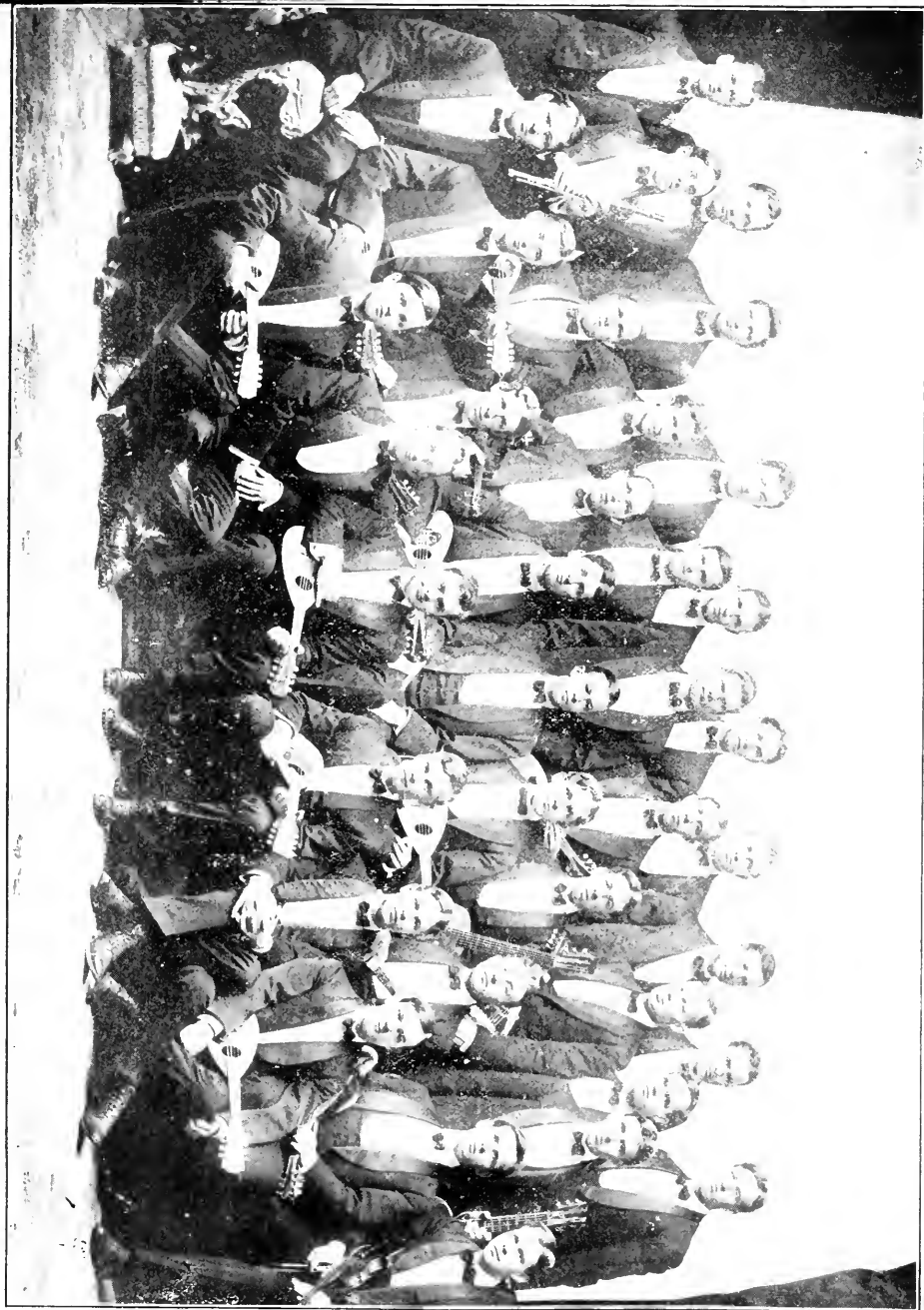
Busby, '07

Haines, '07

Lewis, '07

Barr, '07

Nicholson, '07







Spoon Men

1873 HENRY COPE HAINES

1874 JAMES EMLÉN

1875 MILES WHITE, JR.

1876 FRANK H. TAYLOR

1877 ISAAC W. ANDERSON

1878 ALBERT L. BAILEY

1879 WILLIAM C. LOWRY

1880 JAMES LYNCH

1881 WILLIAM H. COLLINS

1882 T. CHALKLEY PALMER

1883 W. ALPHEUS WHITE

1884 CHARLES R. JACOB

1885 RUTH M. JONES

1886 WILFRED W. WHITE

1887 RICHARD J. WHITE

1888 JOSEPH W. SHARP, JR.

1889 THOMAS F. BRANSON

1890 WILLIAM PERCY SIMPSON

1891 GEORGE THOMAS, 3RD

1892 W. NELSON LOFTON WEST

1893 JOHN ROBERTS

1894 DAVID SHEARMAN TABER, JR.

1895 FRANK HENRY CONKLIN

1896 LEVI HOLLINGSWORTH WOOD

1897 CHARLES HENRY HOWSON

1898 WALTER C. JANNEY

1899 JOSEPH PAUL MORRIS

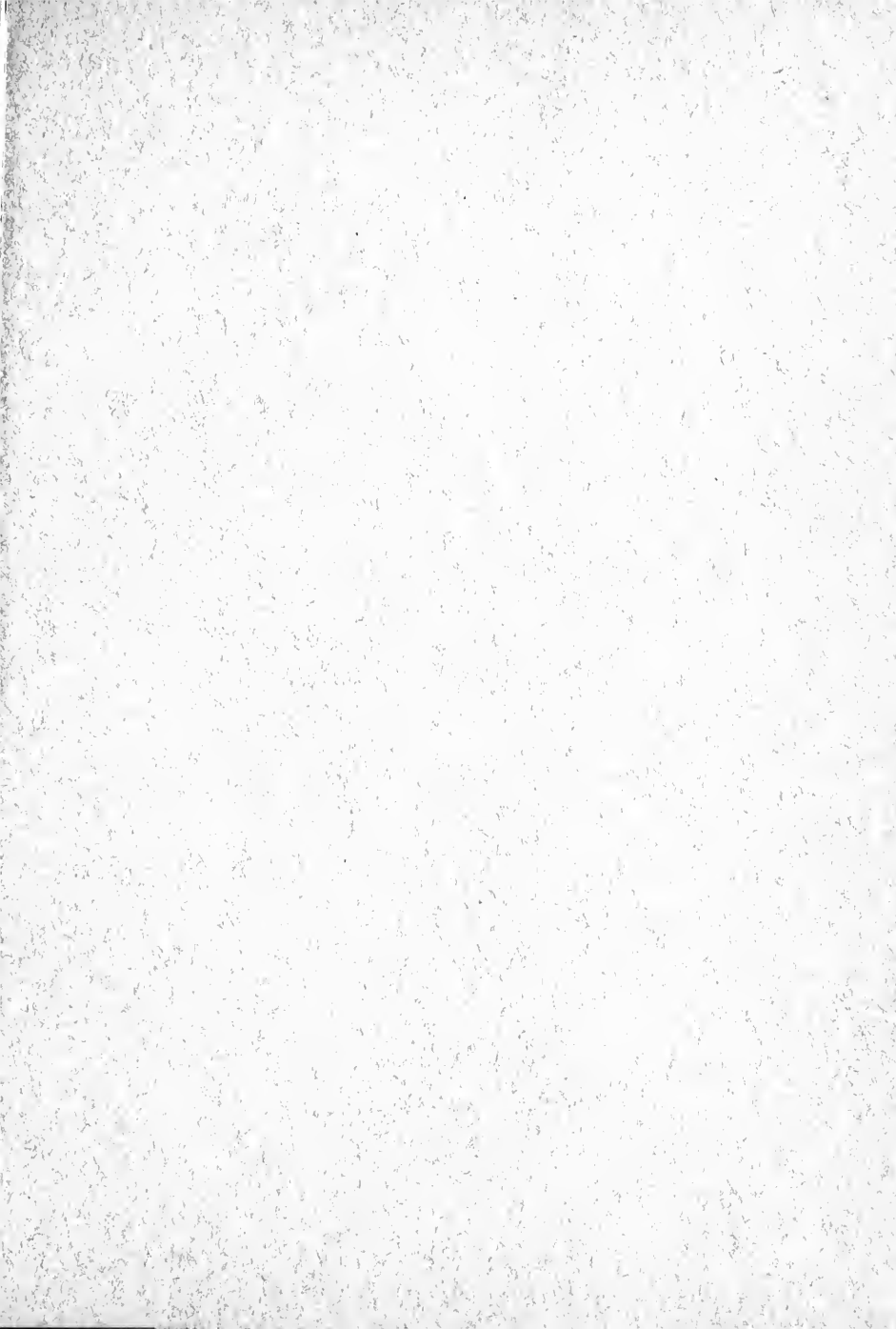
1900 HORACE HOWARD JENKS

1901 WILLIAM EDWARD CADBURY

1902 EDGAR EARL TROUT

1903 JAMES BLAITHWAITE DRINKER





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HAVERFORD, PA.

HAVERFORD COLLEGE BULLETIN

Vol. II.

EIGHTH MONTH, 1904

No. 5

Alumni Number

1903-1904



Published by Haverford College, Haverford, Pa.
Issued Quarterly at One Dollar per Year

Entered December 10th, 1902, at Haverford, Pa.,
as Second Class Matter under Act of Congress of July 16th, 1894

THE

Forty-club Annual Meeting

Alumni Association

1900-1901

THE

Forty-club

Abstract of the Proceedings
of the
Forty-eighth Annual Meeting
of the
Alumni Association
of
Haverford College

Held in Roberts Hall, June 10th,

1904

PHILADELPHIA
PRESS OF THE LEEDS & BIDDLE CO.
1019-21 MARKET STREET
1904

THE Forty-Eighth Annual Meeting of the Alumni Association of Haverford College was held at Haverford, in Roberts Hall, on June 10th, 1904.

The President, Mr. William M. Coates, '63, called the meeting to order at 5.30 P. M.

On motion, the roll call was omitted, but it was estimated that about seventy-five members attended the meeting.

The reading of the minutes of the last annual meeting was also omitted on motion, inasmuch as printed copies of minutes had been sent to each member of the Association.

In accordance with the usual order of business the annual report of the Executive Committee was read and accepted. The report follows :

To the Alumni Association of Haverford College :—

Your Executive Committee respectfully reports that it has held two meetings during the past year, one in the autumn and one this spring. At the first meeting a communication was received from Dr. William Wistar Comfort, '94, suggesting that Alumni Day be celebrated on Commencement Day. After due consideration it was decided to adopt Dr. Comfort's suggestion, and a Committee of three was appointed to have charge of the day with power to add to their number.

The usual mid-winter dinner of the Association was held on February 12th, 1904, at the University Club, at which about 154 persons were present; the largest attendance ever reported at an Alumni Dinner. The attendance at these dinners has about reached the seating

capacity of the Banquet Room, so that if our numbers continue to increase, we shall have to seek other quarters.

The speakers at the dinner were as follows :—

President Isaac Sharpless

Dr. Seth K. Gifford

Dr. Floyd W. Tompkins

Dr. Edgar F. Smith

Dr. Wm. Wistar Comfort

The Committee on Alumni Day have arranged with the Phi Beta Kappa Society to have Prof. G. H. Palmer, of Harvard University, deliver an address before the Alumni and their friends in Roberts Hall on the evening of Alumni Day, instead of the usual oration by a member of your Association.

Reports from the various standing Committees have been received and will be read.

The deaths of the following graduates and matriculates of Haverford College, have been reported to the Secretary during the past year :—

William Yarnall, '37

Benjamin R. Smith, '42

Charles W. Trotter, '44

Joseph L. Bailey, '51

William B. Morgan, '53

Richard P. Hallowell, '55

Barton F. Thorne, '56

Abram S. Valentine, '57

John R. Bringhurst, '65

Nathaniel B. Crenshaw, '67
B. Franklin Eshleman, '67
Charles L. Michener, '90
Warren H. Detwiler, '92
Edward Rhoads, '93

Respectfully submitted,

C. J. RHOADS, *Secretary.*

Philadelphia, June 1st, 1904.

The Committee on Membership submitted the following report, which was accepted and the gentlemen named were thereupon admitted to membership in the Association.

To the Alumni Association of Haverford College :—

The committee appointed at the last annual meeting to nominate new members to the Association report that they have met and agreed upon the following nominations :—

N. Newlin Stokes, Jr., '75
Edward H. Binns, '88
Charles Herbert Bell, '98
Ulysses M. Eshleman, '03

Respectfully submitted,

HENRY COPE, '69, *Chairman.*

Haverford, June 10th, 1904.

The following report from the Treasurer was read and accepted :—

TREASURER'S REPORT.

General Account.

RECEIPTS,

Balance as per report of June 10th, 1903,	\$ 26 68
Subscriptions for General Purposes	715 00
Interest on deposits	9 03
	<u>\$750 71</u>

PAYMENTS.

Supper at the College, June 10th, 1903	\$300 00
Printing, Stamps and Stationery	56 65
Clerical Services	14 95
On account of Prize for Oratory for 1903	22 50
Committee on Matriculate Catalogue, third instalment on account of indebtedness, as per Resolution passed at Annual Meeting, June 12th, 1901	100 00
Haverford College, amount agreed to be paid toward the cost of printing the proceedings of last annual meeting as one of the College Bulletins	100 00
Loss on Mid-winter Dinner	1 60
Balance	155 01
	<u>\$750 71</u>

Mid-Winter Dinner Account.

RECEIPTS.

147 Subscriptions to Dinner @ \$3	\$441 00
Additional Subscription	2 00
From General Fund to cover deficit	1 60
	<u>\$444 60</u>

HAVERFORD COLLEGE

7

PAYMENTS.

University Club, cost of Dinner	\$405 75
Printing, Stationery, Stamps, &c.	38 85
	<hr/>
	\$444 60
	<hr/>

Cricket Pavilion Fund.

RECEIPTS.

Classes prior to 1860 . . . \$55 00	Forward \$1,033 25
Class of 1860 50 00	Class of 1886 20 00
1861 50 00	1887 100 00
1862 25 00	1888 36 00
1863 25 00	1890 60 00
1865 35 00	1891 20 00
1867 30 00	1892 50 00
1868 25 00	1893 60 00
1869 62 50	1894 66 00
1870 75 00	1895 15 00
1871 95 00	1896 52 00
1872 45 00	1898 75 00
1873 50 00	1899 40 00
1874 33 00	1900 50 00
1875 26 00	1901 53 50
1876 45 00	1902 59 50
1877 25 00	1903 52 00
1878 52 00	1904 41 37
1879 25 00	1905 50 00
1880 50 00	
1881 94 37	
1884 60 38	
	<hr/>
\$1,033 25	\$1,933 62
	<hr/>

HAVERFORD COLLEGE

PAYMENTS.

Printing	\$ 11 45
Laying Water Pipe and making connections	24 20
Lynch Bros. on account of Contract for Erection of the Building	1000 00
Boards for Tablets, including finishing, lettering, etc . . .	135 00
Balance	762 97
	<hr/>
	<u>\$1,933 62</u>

Respectfully submitted,

JONATHAN M. STEERE,

Treasurer.

We have examined the foregoing account, compared the payments with the vouchers and find the same correct.

BENJAMIN R. HOFFMAN,

F. ALGERNON EVANS,

Auditing Committee.

Philadelphia, June 9th, 1904.

The election of officers and executive committee being then in order the following report was read :

To the Alumni Association of Haverford College :—

The committee appointed at the last annual meeting to nominate officers and an Executive Committee for the

ensuing year report that they have met and agreed upon the following nominations :

<i>President</i> —Rufus M. Jones	Class '85
<i>Vice-Presidents</i> —William Draper Lewis.....	“ '88
Edward H. Coates.....	“ '64
L. Hollingsworth Wood.....	“ '96
<i>Treasurer</i> —Jonathan M. Steere.....	“ '90
<i>Secretary</i> —Charles J. Rhoads.....	“ '93
<i>Executive Committee</i> —William W. Comfort.....	“ '94
Joseph W. Sharp, Jr.....	“ '88
Parker S. Williams	“ '94
J. Henry Scattergood	“ '96
Alfred C. Maule.....	“ '99
William W. Justice, Jr....	“ '00
C. Christopher Morris.....	“ '04

Respectfully submitted on behalf of the Committee,

ALLEN C. THOMAS,
Chairman.

Philadelphia, May 19th, 1904.

On motion the report was accepted and the gentlemen therein named were declared elected to the respective positions.

The following Reports of special committees were then read, accepted and the respective committees discharged with thanks of the Association for their services. It was moved and carried that the incoming President appoint new committees to replace those discharged.

REPORT OF COMMITTEE ON ALUMNI
ORATORICAL PRIZE.

To the Alumni Association of Haverford College :

The Committee on the Alumni Oratorical Prize respectfully reports :—

The Annual Contest for the Alumni Prize in Oratory took place in Roberts Hall on May 11th, 1904, at 8 o'clock P. M. Of your Committee there were present Mr. Alfred Percival Smith and the Chairman. The judges were Mr. Joseph Dana Allen, Head Master of De Lancey School, Philadelphia, Mr. Clinton A. Strong, Professor of Elocution at Penn Charter School, Philadelphia, and William P. Thomson, Superintendent of the School District of Lower Merion.

President Sharpless, Dr. Hancock and Dr. Comfort entertained the Judges and the members of your Committee at dinner in the Senior dining room. There were six orations as follows :—

1. Napoleon's Russian Campaign,
George Kingman Helbert, '04,
St. Davids, Penna.
2. Liberty and Luxury, John Charles, '04,
Wichita, Kansas.
3. The Debt of Culture, Chester Jacob Teller, '05,
Philadelphia, Penna.

4. The Significance of Tolstoi,
Sydney Morris Boher, '05,
Shippensburg, Penna.
5. The Problem in the Far East,... Bernard Lester, '04,
Pasadena, California.
6. The Renaissance of Feudalism,
Harold William Jones, '05,
So. China, Maine.

Mr. William P. Thomson announced the decision of the Board of Judges, awarding the prize to Bernard Lester, with Honorable Mention to Chester Jacob Teller. The orations generally were excellent in character. As in former years, the number was limited to three from each of the two upper classes. Your Committee again commends the work done by Professor Hancock, as evidenced by the standard which this prize contest has now reached. It is to be regretted, however, that the audience is notably small as compared with the audience at other college functions. There is apparently no general attendance of the undergraduates. At this year's contest there were present in the Hall between sixty and seventy persons.

Your Committee believes it may be appropriate to refer in this report to the so-called "forensic" work now being done at Haverford. There is at present an organized department in "forensics" which has for its object, as we are informed, "the training of students for a career of aggressive citizenship and of active participation in public affairs." The work begins with the Freshmen, who are called upon regularly to give extemporaneous speeches, and this work is continued throughout the Sophomore

year. There is an annual contest in extemporaneous speaking between the two lower classes for the Everett Society Medal. The advanced class in "forensics," which is elective for upper classmen, has become so large that hereafter it is purposed to divide it into two, one for Juniors, in which the attention will be centered upon the "debate" and the occasional address, and one for Seniors, in which the particular point will be made of the problems of civics and citizenship.

It may be added that the Loganian Society of Haverford has now had six Annual Debates with the Philomathian Society of the University of Pennsylvania. Of these six Haverford has won four, including the debate of last winter.

We are informed that there are always a dozen candidates for the Alumni Prize, most of whom come from the advanced course in "forensics" above referred to. It is satisfactory to note, therefore, that the annual contest for this prize, appears to have taken a place, during late years, in a much more *definite* system of work in the line of composition and oratory—of public speaking—than formerly.

On behalf of the Committee,

PARKER S. WILLIAMS,
Chairman.

10 June, 1904.

Mr. Bernard Lester, the winner of the prize this year, had been called home on account of illness in his family, and the medal was accordingly awarded to him in absentia.

To the Alumni Association of Haverford College:—

The Joint Committee on Athletics presents herewith its report for the College year 1903-4 :—

Last season, as in the previous one, the foot ball team was under the care of J. Henry Scattergood, '96, as Head Coach, assisted by numerous Alumni, some of whom gave up much time to the business of coaching the team.

There was considerable good material in the College although the lack of heavy men for the line was noticeable and handicapped the efforts of the Head Coach and his assistants. It is, of course, possible to atone for weight in the attack, by increased speed, since physicists tell us that momentum is weight multiplied by velocity, but when it comes to meeting an attack, a heavy, solid line is of great importance.

The season, however, passed off creditably. Except in the practice game with the University of Pennsylvania, Haverford was not outclassed by its opponents.

The Swarthmore game resulted in a victory for Swarthmore, with the final score, 16 to 6. Swarthmore made one touchdown and goal early in the first half and their quarter back afterwards succeeded in kicking two goals from the field. In the second half, Haverford played much the faster, better game and scored a touchdown and goal. There was no other scoring in this half, leaving the final score, as stated, Swarthmore 16, Haverford 6.

The game was a well-contested, earnest struggle from beginning to end and nothing was noticed to which objection could be taken. In such games there is no bitterness in defeat, and Haverfordians left the field feeling

that their team had worthily upheld the colours and had played as good a game as their opponents, being defeated by the field goals kicked by a master of that difficult art.

The system of graduate coaching was loyally supported by the College and has been adopted for next season with unanimity. There is no doubt that the morale and self reliance of the players are strengthened by this plan, provided the graduate coaching is in the right hands. Haverfordians owe very much to J. Henry Scattergood ('96) for his self-sacrificing efforts in inaugurating the system, in 1902, and in continuing in charge of it for a second season. Owing to business requirements, he has been obliged to decline the work for next season and H. N. Thorne ('04) Captain of last year's team, has been unanimously chosen as Head Coach for next fall. He will have the cordial support of the late Coach and of the other Alumni interested in the game. His experience last season, as Captain, when he did a good deal of coaching work, will serve to prepare him for the position. His earnestness and qualities of leadership are well known in the College and he will have the cordial support of the team and the students.

A team to play Association Football was again organized at the close of the Rugby season and was admitted to the first division of the Cricket Club league, a compliment well earned by the good play of the teams of previous seasons. Weekly games were scheduled but owing to the very severe winter, the severest for many years, only six were played. Of these, Haverford won 2 and lost 4. It is hoped that the game will be continued

and be more generally supported by the College than heretofore. Last year's team did good work but it did not represent the full playing strength of the College.

The work in the Gymnasium, under the watchful and experienced care of Dr. Babbitt, has been well done. In the one meet, with Lehigh University, Haverford won, 29 points to 25.

An exhibition with Princeton, University of Pennsylvania, and University of New York, was held which proved interesting to a large audience. It would seem to an onlooker that some events on the program of these gymnasium meets might well be omitted. Feats which are interesting to an audience—or to the younger part of it—because of the danger involved may cultivate “nerve” in the performers but when this is done at the risk of limbs or even life, it would appear that “nerve” so acquired may be gained at too great a cost. The old dictum “Exercise for health not strength” is as worthy of consideration now as when Isocrates stated it.

Out-door athletics, in the various forms of what are known as Field and Track events, are getting a firmer hold at Haverford and as the College grows in number of undergraduates there will doubtless be an increasing number of devotees of these sports.

The Committee would deprecate any attention to them which would interfere with Cricket, the noble game which Haverford, for two generations, has distinctively made its own. There are, however, those who enjoy and can become proficient in field and track athletics who do not, or cannot, play cricket, and these should have their opportunity. It is believed this can be arranged for

without prejudice to cricket.

An interesting meet was held with Rutgers which was won by Haverford, 62 points to 34. The winning of the two mile race for Haverford by Miller ('06), who had never run the distance before and yet won as he liked in the last 80 yards, will be remembered by those who saw it. In this meet, E. C. Tatnall ('07) won the mile, breaking the College record, and, later, the same runner, representing Haverford in the Inter-collegiate, came in a close third in a field representing the best milers in the Eastern Colleges and Universities.

Interest in cricket was stimulated the past season by the invitation received from the English Public Schools to repeat the visits, always to be remembered, of 1896 and 1900. Of this trip, it will be the province of next year's report to speak.

In the home season, of eleven games scheduled for the first eleven, all were won except that with the New Jersey Athletic Club, at Bayonne, N. J., which was lost by one run. The all-round play of the eleven probably stamps it as one of the best that has ever won the College colours. In batting, Captain Morris and nearly every member of it made large scores, on more than one occasion; the fielding was, almost without exception, first class, and the bowling appeared to be good enough for all that was required of it. It is greatly to be wished, however, that more attention were paid at the College to this essential matter of bowling. Haverford has developed some first-class bowlers. There can hardly be a better opportunity to get the necessary practice than during the four years of the College course. As it is quite possible

that a bowler may be developed from those who know little or nothing of the game, every effort should be made to discover and bring out latent talent of this sort. This subject is again commended to the attention of next year's Captain and Ground Committee. This year, Cornell University was admitted to the Inter-Collegiate Series of games and its eleven made a very creditable debut. Haverford won first place by defeating Cornell, University of Pennsylvania, and Harvard, in the order named, and the cup remains in the keeping of the College.

The second and third elevens had full schedules and the interest taken in the game by members of these elevens, as well as the interest in the inter-class matches, augurs well for the future of cricket at the College.

In conclusion, Athletics are believed to be in a safe and healthy state at Haverford. The relations between the undergraduates and your representatives are most cordial. Our problems, happily, are simpler and our responsibilities less onerous than in some of our older institutions of learning, whose athletics appear to be so often in a perilous state of uncertainty and unrest and which, if one may judge from sympathetic newspaper accounts, tax to the utmost the diplomancy of graduates and undergraduates, alike. How much of this comes from the introduction of "business methods" into the conduct of Athletics, who shall say? This introduction was hailed as a great step in advance and yet if it means that unfaltering pursuit of results, of success, which is necessarily involved in business, the gain is hard to see. "The games's the thing," whatever the game is. Games can

be played and should be played for the pleasure and benefit coming from the playing, as well as for the glorious reward of victory when victory comes. "Business is business," however, and is conducted for results, for success, and not for the pleasure of transacting it. The genius of business and of sport are not allied. Otherwise, sport would lose its best excuse for being, that it is a relaxation from and, therefore, a preparation for the serious duties of life, whether at School, at College, or afterwards, in this work-a-day world.

On behalf of the Committee,

EDWARD BETTLE, JR.,
Chairman.

Philadelphia, 6-10-1904.

To the Alumni Association of Haverford College:—

The Committee appointed last year to build a Cricket Pavilion on Cope Field and to collect funds for the purpose, report that the building has been erected and the funds secured, with the exception of a very small balance, which is promised and will be in hand when needed.

Soon after our appointment, Walter F. Price ('81) very generously offered to prepare plans and specifications for the Pavilion, as his contribution to the project, which liberal offer the Committee gratefully accepted.

The Committee organized by appointment of a small Building Committee and divided the work of collecting funds among the different members of the Committee.

The Building Committee at first decided to erect a building containing one large room and to place a covered

pavilion for spectators upon the roof. Plans carrying out this idea were drawn by Walter F. Price and subsequently estimates were got and an effort made to raise the money. The cost, however, was greater than expected, so these plans were abandoned and the project held in abeyance until early this year when the Committee decided to give up the roof pavilion and new plans were prepared by the architect for a one story building to cost about \$2,000. The effort to collect funds met with gratifying success and the necessary amount was soon obtained, except a very small balance which will be paid in when wanted, as has been stated.

The Pavilion is a shingle structure placed on the southwest corner of Cope Field, the general dimensions being 20 x 50 feet, with a covered porch 10 feet wide, running nearly the length of the building. This porch being elevated four or five feet from the ground, a capital view of the entire cricket field can be had from it. There is one large room with two alcoves. The north end, towards the College buildings, has a bay or oriole window. The main feature of this room is a frieze of oak shields which will contain the names of the Cricket Elevens as far back as they can be obtained and there will be sufficient space remaining for the Cricket Elevens of many years to come. There are, also, shields giving the names of the elevens who have visited England in 1896, 1900, and 1904.

The preparation of these shields, for the earlier years especially, was a work of great difficulty and Alfred G. Scattergood ('98), Chairman, and the members of his Committee, are entitled to the thanks of all Haverfordians for their successful carrying out of this most excellent

design. The shield will make the room a Valhalla for all Haverford cricketers. It is intended to place on the walls, cricket pictures, portraits of eminent English and American cricketers—some of these have been already promised—to add some furniture, and thus make the room an attractive resort for Haverfordians and visitors.

In the basement, is a small room for the use of players containing a toilet room. There is, also, space, to accommodate the roller, tools, etc.

The following is a statement of the cost, viz :—

Building, as per contract	\$1,994 00
Tablets, including lettering	135 00
Water Connections, Printing, etc.	110 65
Total Cost	<hr/> \$2,239 65

In conclusion, the Committee would express its cordial thanks to Walter F. Price ('81) the Architect, for his professional services, and warm appreciation of the prompt and cordial manner in which the different classes responded to the calls made upon them for funds and, also, for the help received from Haverfordians, individually. These responses show not only loyalty to the College but an abiding interest in the grand old game with which the College is fortunately identified.

It is hoped that this new home of Haverford cricketers will be a frequent rallying place for all Haverfordians, past, present, and future.

On behalf of the Committee,

EDWARD BETTLE, JR.,
Chairman.

Philadelphia, 6-10-1904.

The Alumni Committee appointed at the last annual meeting of the Association to interest students at preparatory schools in Haverford College, submit the following report :—

The Committee has held but one meeting, and that in conjunction with a committee of undergraduates under appointment with the same object in view. At this meeting the subject of interesting schoolboys in Haverford College was discussed at length, and more intelligent plans of operation were adopted than in the past. Briefly stated, the results of the conference brought out the following opinions :

(1) That the active personal work of influencing schoolboys is best left in the hands of the undergraduates who are more in touch with the boys in the schools from which they have themselves respectively graduated.

(2) That the Alumni Committee's sphere of usefulness is found rather in emphasizing to old Haverfordians the need of constantly spreading the influence of Haverford in their respective communities, and in forwarding to the college office the names of boys who may become interested in Haverford.

It is not too much to say that this year has witnessed a more determined and better organized effort than ever before, upon the part of both graduates and undergraduates. A very efficient body of undergraduates, working under the direction of Dr. Babbitt and Mr. H. Norman Thorne, '04, has carefully canvassed more than a dozen schools in this neighborhood, which may, in any sense, be regarded as "feeders" of Haverford College. Tickets have been judiciously distributed for the athletic and social events

of the college year. Several schools in the neighborhood have accepted the invitation to hold their spring sports upon Walton Field and inter-academic cricket matches have been played on Cope Field. Numerous cricket games have been played between school elevens and the college second and third elevens. In some cases schoolboys have been invited to the college as the guests of undergraduates and have been properly entertained. It is proposed that these features of undergraduate activity shall continue in the future, quite independently of Alumni action.

Your Committee recommends, however, that an Alumni Committee be annually appointed, to support and counsel the undergraduates, if need be, and more especially to keep this urgent subject before the attention of the Alumni. If the college is to grow as desired, Haverford needs the personal interest of old students who believe in the kind of training there offered. By an occasional address at the meetings of the Association, by correspondence with Haverfordians in remote localities, by cooperation with the college authorities in the case of likely candidates, much good service can be done. It is a work which must be continued in season and out of season, if Haverford resources are to be kept abreast of contemporary needs.

Signed by

W. W. COMFORT, '94.

On behalf of the following Committee :

J. Stoddell Stokes, '89, *Chairman*.

W. W. Comfort, '94,

Douglas H. Adams, '96,
Alfred G. Scattergood, '98,
Howard H. Lowry, '99,
Frank M. Eshleman, '00,
William W. Justice, Jr., '00,
Edward C. Rossmässler, '01,
William W. Pusey, 2nd, '02,
James B. Drinker, '03.

In connection with the last report President Sharpless spoke of the importance of this Committee and of the duty of every Alumnus to personally influence desirable students to enter Haverford College. It was thereupon moved and carried that the President appoint a committee with power to add to their number, to carry on the work of this committee.

On motion of Mr. Henry Cope, '69, it was resolved to refer the care of the Trophy Room in the Gymnasium to the Joint Athletic Committee with power to take such action as may be necessary to preserve the trophies, photographs, etc.

In closing the meeting Mr. Coates, the retiring president, expressed his appreciation of the honor of having served as President of the Association for two years and of the pleasure it had been to him.

Mr. Coates announced that in accordance with an arrangement made with the Phi Beta Kappa Society the members of the Association were invited to attend an address to be delivered in Roberts Hall, at 8 p. m., by Professor George Herbert Palmer, of Harvard University, on "George Herbert as a Religious Poet." This address to take the place of the usual Alumni Oration.

After announcing that the incoming President would make the appointments to the various committees, the Chairman declared the meeting adjourned on motion.

The following committees were appointed by President Mr. Rufus M. Jones.

COMMITTEE TO NOMINATE MEMBERS TO THE ASSOCIATION.

Henry Cope, '69, <i>Chairman</i>	George Thomas, 3rd, '91
Richard T. Cadbury, '72	William C. Longstreth, '02
J. Whitall Nicholson, '76	Howard Brinton, '04
Charles S. Crosman, '78	

COMMITTEE TO NOMINATE OFFICERS AND AN EXECUTIVE COMMITTEE.

Allen C. Thomas, '65, <i>Chairman</i>	William H. Futrell, '87
James Emlen, '74	William F. Overman, '89
Albert L. Bailly, '78	William W. Cadbury, '98
William P. Morris, '86	

COMMITTEE ON ALUMNI ORATORICAL PRIZE.

Parker S. Williams, '94,	Alfred Percival Smith, '84
<i>Chairman</i>	William Draper Lewis, '88
Alden Sampson, '73	Clarence G. Hoag, '93

COMMITTEE ON ATHLETICS.

Edward Bettle, Jr., '61,	Charles J. Rhoads, '93
<i>Chairman</i>	J. Henry Scattergood, '96
Henry Cope, '69,	John A. Lester, Ph. D., '96
William C. Lowry, '79	Dr. Francis B. Jacobs, '97
Joseph W. Sharp, Jr., '88	Alfred M. Collins, '97
Dr. Thomas F. Branson, '89	

HAVERFORD COLLEGE

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COMMITTEE TO INTEREST STUDENTS AT PREPARATORY SCHOOLS IN HAVERFORD COLLEGE.

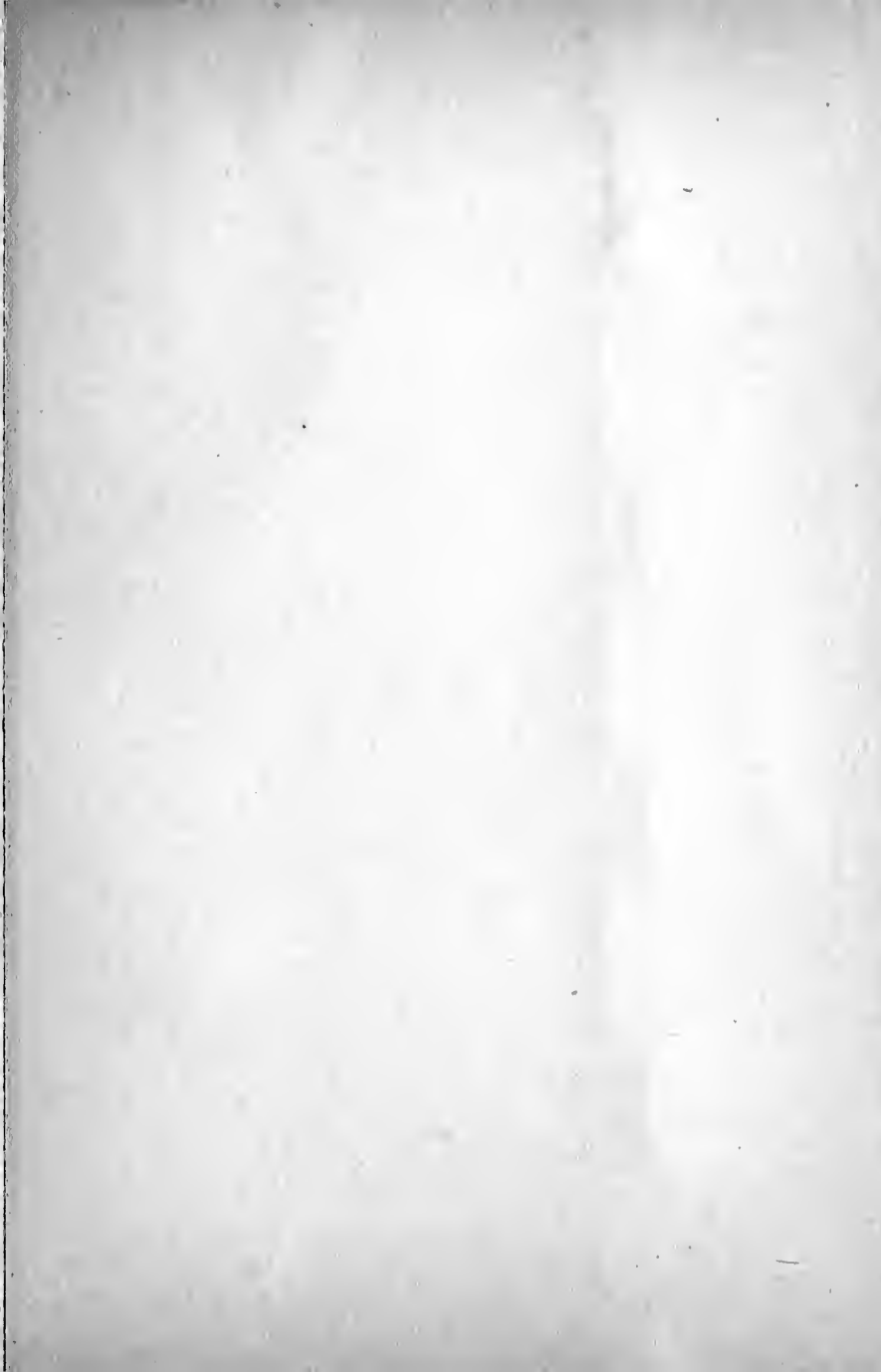
Wm. W. Comfort, Ph. D., '94,	Jonathan T. Rorer, '94
<i>Chairman</i>	Louis J. Palmer, '94
Egbert S. Cary, '92	Walter H. Wood, '01
Edwin M. Wilson, A. M., '94	Samuel W. Mifflin, '02
John A. Lester, Ph. D., '96	Henry J. Cadbury, '03
J. Henry Scattergood, '96	

COMMITTEE TO AUDIT THE TREASURER'S ACCOUNTS.

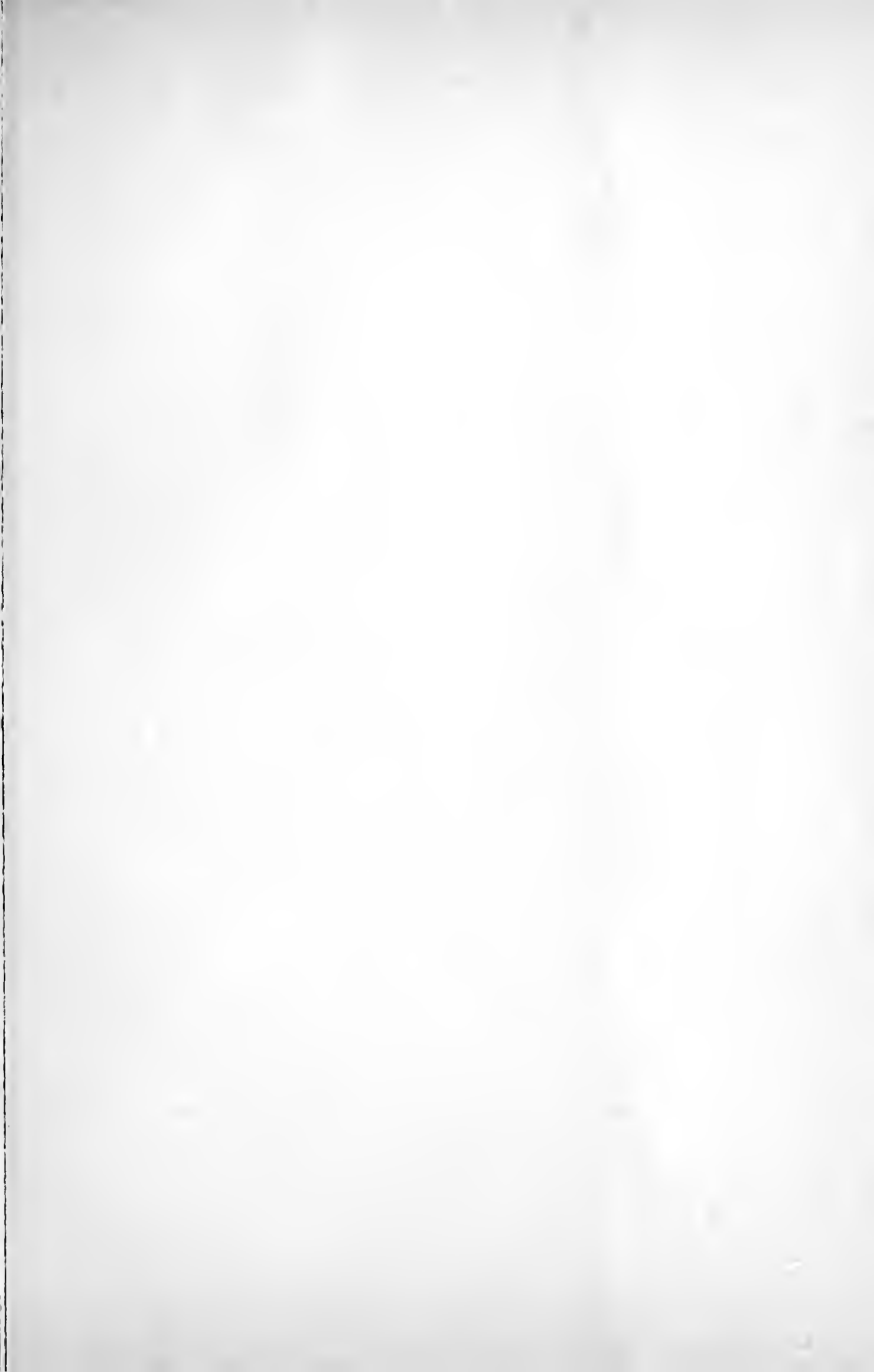
Oscar M. Chase, '94	Alfred G. Scattergood, '98
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C. J. RHOADS,
Secretary.

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